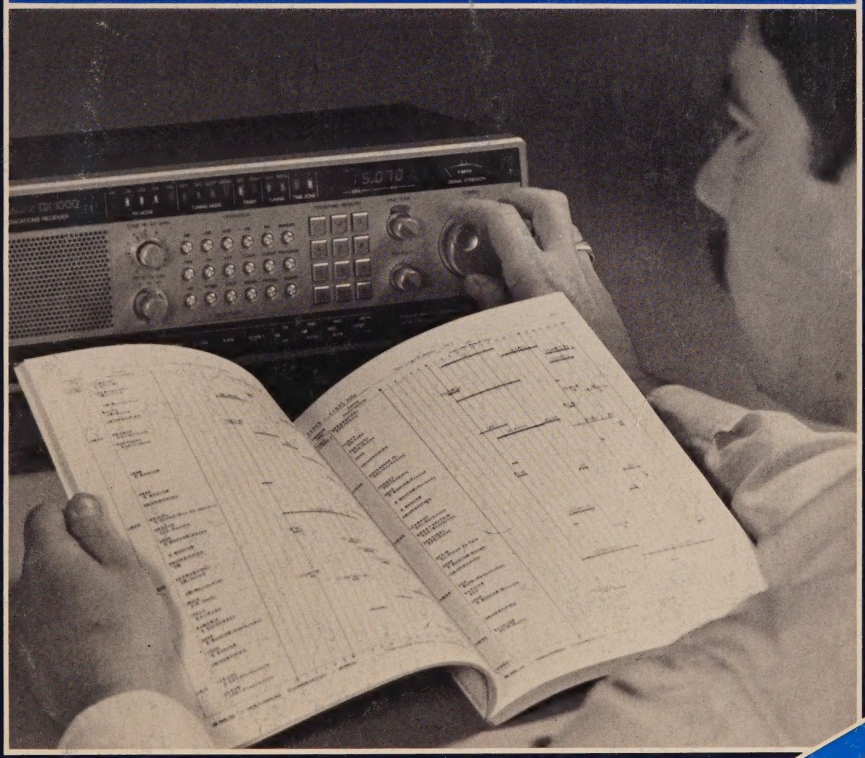
International Broadcasting Services, Ltd.

$3.95

RADIO DATABASE INTERNATIONAL

QUICK-ACCESS GUIDE TO SHORTWAVE BROADCASTING SCHEDULES



SPECIAL EDITION: TROPICAL BAND SURVEY

LAWRENCE MAGNE
EDITOR

International Broadcasting Services, Ltd.

AUG 3 1984

July 19, 1984

Dear Fellow NASWA Member,

Thank you for ordering Radio Database International. Enclosed is the first of the two books you requested: the Tropical Bands Edition, which is also the first in the RDI series of definitive references to the shortwave broadcasting spectrum.

The feedback on this first Tropical Bands Edition has allowed us to create new computer system specifications for reprogramming. This activity is now approaching completion, allowing us to commence with the preparation of the inaugural International Broadcasting Edition. Although predicting the timing of any intricate new system is chancy, it now appears as if the inaugural International Broadcasting Edition will be ready for shipping in five to six weeks, at which time your payment will be deposited.

The inaugural International Broadcasting Edition will include, in addition to "Shortwave Broadcasting Stations of the World -- by Frequency", the entirely new section "Shortwave Broadcasting Stations of the World -- by Country & Broadcaster". I think you will find this addition to be helpful and informative in enhancing your shortwave listening enjoyment.

73,

Larry Magne,
Editor

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Radio Database International

AUG 3 1984

Special Edition
Tropical Bands Survey

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PREFACE

If you ask a broadcaster why, with a growing variety of alternative media available, listenership to shortwave broadcasts appears to be increasing, his answer probably would be that people are more interested in hearing news and opinions from selected stations, such as the BBC or those located in "trouble spots". To date, shortwave broadcasting references have reflected this view. Books, newsletters, and station schedules have concentrated on sorting the shortwave spectrum into tidy national entities for this type of listener.

The **Database** also reflects this approach to shortwave listening. But it also recognizes that a considerable proportion of shortwave listeners spends time scanning the bands "exploring" the world by radio. There are good reasons for this. Shortwave radio—unlike satellite television, for example—relies on an instrument of nature, the ionosphere, to transport distant signals. As with any other natural entity, the ionosphere changes over time. Its reflective properties change over an 11-year cycle, an annual seasonal cycle, a lunar (monthly) cycle, as well as randomly from day-to-day. Thus, shortwave listening rarely becomes stale. While any number of major international broadcasters comes in daily, the myriad of smaller stations that populate the shortwave spectrum are a challenge to flush out for a peek inside remote cultures.

To scan the bands properly, two items are helpful. First, a radio with accurate frequency readout. Second, a reference to help translate the frequency readout into an answer as to what is being received. With thousands of stations operating on shortwave, the absence of such a reference means that precious time must be spent awaiting identification or leafing through country-sort references until a likely match is found.

Technology has resolved the first point. Good shortwave portables now are available with exacting digital frequency display (one of these, the Sony ICF-6500W, currently sells in the US for under $100).

The introduction of the **Database** resolves the second. The **Database** incorporates a major section, founded on computer graphics, that displays shortwave broadcasting schedules in *frequency* order. The presentation is orderly and uncluttered, so as to be easy and rapid to use.

Increasingly, the only means by which reliable schedule information can be obtained from a number of countries is via systematic off-the-air monitoring, a little-appreciated but scarce talent that takes years to perfect. The **Database** has been designed to integrate transmission particulars from the International Telecommunication Union and certain other sources with the findings of IBS's geographically-dispersed monitoring team. The computer subroutines reduce paperwork to a minimum and eliminate a variety of human errors. This allows the monitors to spend a greater proportion of their time monitoring, while simultaneously it allows the book to come to press more quickly. This inaugural edition awaited completion of innovative software development of a type that had never before been undertaken successfully, but the actual "production" (monitoring, editing, printing) time proved to be only a few weeks.

Nothing is quite so pointless as an out-of-date guide. As international broadcasters, by convention, overhaul their transmission schedules each six months, the **Database** is reissued afresh semi-annually so as to be useful year-around.

The **Database** project has taken over two years to complete from its inception in concert with Aaron Beller, then teaching computer science at the University of Pennsylvania. Since that time, there has been an outpouring of creativity, toil, patience, and human kindness from many who have crossed our path, sometimes to come on board. Noel Green, whose perseverance and tireless monitoring efforts have generated so much of the data necessary to bring the book to fruition; Tony Jones, whose monitoring site in Paraguay may well be the most productive and accurate in South America; Sarath Amukotuwa, whose findings from Zambia have been so useful; Bill Sparks, who provided details on Indonesia from his own "databank"; Don Jensen, who fleshed out our inaugural Tropical Bands data; plus Bob Hill and Isao Ugusa, whose firsthand and published findings have been so helpful; and Dave Walcutt, whose encouragement and faith in our efforts has helped sustain our *esprit.*

David Meisel, Professor of Astrophysics at the State University of New York, went beyond the tried path of established shortwave propagation prediction programs to develop a system that not only is among the most accurate available in or out of government, but also is readily interpretable by listeners, monitors, broadcasters, and others who depend on the shortwave spectrum. What is presented in this inaugural edition of the **Database** is the latest stage of a system/presentation that is continually being upgraded. You can participate in this project by letting either he or I know your thoughts...which paths you feel should be included, how useful you find the graphics presentation, and how closely our predictions tie in with your observed findings.

Taking the computer and system specifications and turning them into a working system fell upon John Leather, whose abilities as mathematician, programmer, and puzzle-solver led to results in excess of those originally specified.

Mary Kroszner's ability to meet even the most stringent of deadlines is a primary reason the **Database** has seen the light of day. Others to whom we are indebted include Jim Wareheim, currently of the Burroughs Corporation, and Sharon McInerney of Computerland/Princeton.

In the coming few months, we will be fine-tuning and upgrading various aspects of the **Database** system, presentation, and data. As you can imagine, your input will be uncommonly useful during this period, so please do take a moment to let me know how you feel about the **Database.**

Lawrence Magne
Penn's Park, Pennsylvania

DATABASE PROGRAM BROADCAST TWICE MONTHLY

"RADIO DATABASE INTERNATIONAL" is presented jointly by the English-language services of Radio Canada International and Swiss Radio International. These programs update the current issue of the **Database,** plus provide a guide to the diverse lands and peoples served by the broadcasters included in the **Database.**

Noel Green provides a summary of the past month's **Database** update news, whereas Don Jensen illuminates the history, cultures, and ways of life of those served by the thousands of domestic stations audible from afar via shortwave. Professor Meisel rounds out the series with a summary of the upcoming month's expected reception conditions.

Radio Database International's First Program is aired over Radio Canada International's "SWL Digest" the first weekend of each month. The Second Program—distinct from the first—is aired over "Swiss Shortwave Merry-Go-Round" the second Saturday of the month.

LEXICON OF TERMS

Alt—Alternate.
AV—A Voz.
BC—Broadcasting, Broadcasting Company, Broadcasting Corporation.
BCS, BS—Broadcasting Service.
Cd—Ciudad.
Channel—The norm for channel spacing within the shortwave broadcasting spectrum is 5.0 kHz. A small proportion of stations does not operate within this norm, so the **Database** provides frequency resolution to better than one kHz to aid in station location and identification.
Cl—Club, Clube.
Country—Country designations are those of the ITU. Unofficial broadcasters and geographical entities are included for reference purposes only and do not imply endorsement or recognition by IBS or the ITU.
Cu, Cult—Cultura, Culture.
DS—Domestic Service.
Em—Emissora, Emisora, Emissor, Emitter.
EP—Emissor Provincial.
ER—Emissor Regional.
F—Friday.
Fade-in, Fade-out—If the **Database** monitoring team cannot establish the definite sign-on (or sign-off) of a station, the earliest (or latest) time the station could be traced is entered, instead, as the fade-in (or fade-out) time.
Feeder, shortwave—A Fixed service (point-to-point) transmission, usually in single or independent sideband mode, beamed to a relay site. Although not intended for reception by the public, shortwave feeder transmissions, which can be received on better communications receivers, sometimes provide the best or only means for reception of a particular broadcaster at a given time. For this reason, selected shortwave feeder data is included in the **Database,** even though any given actual useage may be irregular. Detailed information on appropriate equipment to receive these transmissions will be included in the Summer/Autumn 1984 edition of the **Database.** Transmission modes for shortwave feeders are:
LSB—Lower Sideband (single-sideband signal)
ISL—Lower Sideband (of independent-sideband signal)
USB—Upper Sideband (single-sideband signal)
ISU—Upper Sideband (of independent-sideband signal)
RAM—Double Sideband, Reduced Carrier signal
FR—Federal Republic.
Frequency—The measurement most widely accepted to indicate the location of a station within the radio spectrum. Frequency is most often expressed in kilohertz (kHz) or Megahertz (MHz), although wavelength is still used in Eastern Europe and certain other parts of the world. The frequency of a station may be determined from the wavelength via the following formula: Frequency (kHz) = 299,792/Wavelength (Metres). Also, cf. "Wavelength" and "Channel".
Irr—Irregular operation or hours of operation.
Is—Island(s).
Jamming—Deliberate interference to a transmission with the intent of making reception impossible. The vast majority of jamming currently emanates from the Soviet Union and its Eastern European allies, and is directed against broadcasts in Armenian, Azerbaijani, Belorussian, Bulgarian, Czech, Estonian, Georgian, Hebrew, Latvian, Lithuanian, Polish, Russian, Slovak, Tatar-Bashkir, Turkestani, Ukrainian, and Yiddish. Soviet/Eastern European jamming consists largely of a sound not unlike that of a roomful of truck or lorry engines roaring away. Coded messages appear now and then amidst the roaring, and in some instances distorted programming from the Soviet "Mayak" (DS-2) home service is interspersed, as well. One means to cope with jamming interference is to use the propagation data in Part 3 to determine which bands are most likely to provide good reception from the part of the world you wish to hear, while at the same time are not likely to provide good reception from the Soviet Union and Eastern Europe. Directional antennas also can improve the signal-to-jamming ratio under certain circumstances.
kHz—Kilohertz (cf. Frequency).
kW—Kilowatt(s) (cf. Power).
Location—The physical location of the transmitter/antenna complex. This location may not correspond to the location of the studios in which the broadcasts are prepared. Data on location names are derived, in most instances, from the Map Section of the 1983 Comprehensive Edition of *The Times Atlas of the World* (cf. Supplementary English-Language Publications). As transmitter complexes of major international broadcasters are sometimes located in sparsely populated areas, the exact transmitter site may be up to several kilometers from the location indicated. Those in need of precise transmitter geographical coordinates should contact the Publications Department of the ITU (cf. Supplementary English-Language Publications).
LV—La Voix, La Voz.
M—Monday.
MHz—Megahertz (cf. Frequency).
Multilingual—A combination of any "graphics language" (English, French, German, Italian, Japanese, Portuguese, Spanish) with another language. Thus, a transmission in English and Urdu would be designated as Multilingual, rather than English.
N—New, Nueva, Nuevo, Nouvelle, Nacional, National.
Nac—Nacional.
Nat—National.
Network—The network or service of a broadcast. In addition to the obvious designators, such as "World Service", Network can indicate language (e.g., "Arabic") when this information is not covered by the graphics symbols for English, French, German, Italian, Japanese, Portuguese, and Spanish. Domestic Service transmissions are so indicated by "DS".
PBS—People's Broadcasting Service.
Power—RF output power, i.e. before amplification by the antenna, in kilowatts (kW). The present range of powers in use for shortwave broadcasting is 0.04-500 kW.
PR—People's Republic.
PS—Provincial Station, Pangsong.
Pto—Puerto.
R—Radio, Radiodiffusion, Radiodiffusora, Radiodifusão, Radiofonikos, Radiostansiya, Radyo, Radyosu, etc.
Relay—Extraterritorial transmission facility, usually fed by recording, satellite, or shortwave feeder (cf.). Abbreviations used for relay sites are given in "Shortwave Broadcasting Stations of the World—by Country & Broadcaster".
Rep—Republic.
RT, RTV—Radiodiffusion Television, Radio Television, etc.
RN—Cf. R and N.
RS—Radio Station, Radiostansiya, Radiofonikos Stathmos.
S—San, Santa, Santo, São, Saint.
Sa—Saturday.
Shortwave Spectrum—The shortwave, or High-Frequency, spectrum is that portion of the radio spectrum that lies between 3-30 MHz (3,000-30,000 kHz); however, common useage places the shortwave spectrum between roughly 2-30 MHz. Although broadcasting takes place throughout the shortwave spectrum (between-band broadcasting is known as "out-of-band" broadcasting, which is some-

times permitted under the Rules and Regulations of the ITU), the recently-adopted—but not yet fully implemented—nominal ITU shortwave broadcasting band parameters are (worldwide unless otherwise indicated):

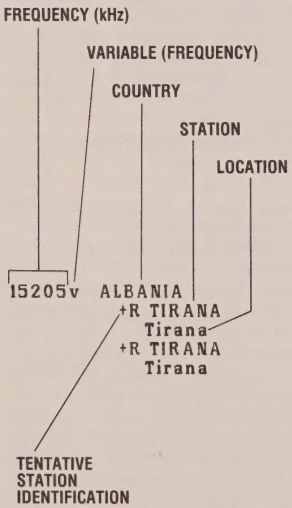
120 Metre Band:
2300-2498 kHz (Tropical Zones only)
90 Metre Band:
3200-3400 kHz (Tropical Zones only)
75 Metre Band:
3900-3950 kHz (Asia & Pacific only)
3950-4000 kHz (except Americas)
60 Metre Band:
4750-4995 kHz (Tropical Zones only)
5005-5060 kHz (Tropical Zones only)
49 Metre Band:
5950-6200 kHz
41 Metre Band:
7100-7300 kHz (except Americas)
31 Metre Band:
9500-9900 kHz
25 Metre Band:
11650-12050 kHz
21 Metre Band:
13600-13800 kHz
19 Metre Band:
15100-15600 kHz
16 Metre Band:
17550-17900 kHz
13 Metre Band:
21450-21850 kHz
11 Metre Band:
25670-26100 kHz (25600-26100 until 7/89)

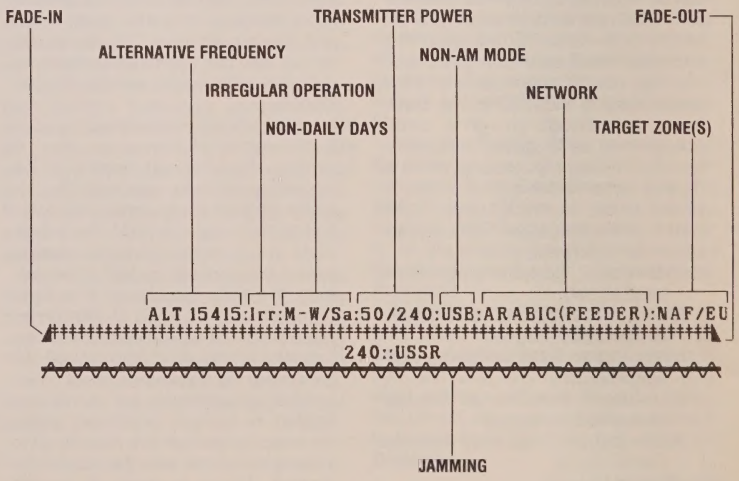
St—Saint.
Sta—Santa.
Sto—Santo.
Su—Sunday.
Target—The international geographical entities to which a transmission is beamed, provided it is intended to be heard outside the country. Targets are as follows:

AF—Africa
AM—Americas
ANZ—Australia & New Zealand
AS—Asia
ATL—Atlantic
CA—Central America, Carribean & Mexico
CAF—Central Africa
EAF—Eastern Africa
EAS—Eastern Asia
EEU—Eastern Europe
ENA—Eastern North America
EU—Europe
EUSSR—Eastern USSR
ME—Middle East
NA—North America
NAF—Northern Africa
PAC—Pacific
SA—South America
SAF—Southern Africa
SAS—Southern Asia
SEA—South-East Asia
USSR—USSR
WAF—Western Africa
WEU—Western Europe
WNA—Western North America
WUSSR—Western USSR

Th—Thursday.
Tu—Tuesday.
UTC—Coordinated Universal Time, a/k/a Greenwich Mean Time (GMT) or Zulu (Z): the 24-hour international broadcasting reference, based on the time standard of the Greenwich Observatory in the U.K. The difference between UTC and local time may be determined by listening for routine UTC announcements aired by international broadcasters. Some shortwave radios and digital watches come equipped with a 24-hour time standard to eliminate the necessity to convert local time to UTC.
v—Variable frequency, i.e. one that is unstable or drifting.
Vo—Voice of.
W—Wednesday.
Wavelength—A vintage alternative to Frequency (cf.) to express the location of a station within the radio spectrum. The wavelength of a station may be determined via the following formula: Wavelength (Metres) = 299,792/Frequency (kHz). This formula may also be used to ascertain the metre band of a particular station (cf. Shortwave Spectrum).
WS—World Service.

GUIDE TO GRAPHICS FORMAT





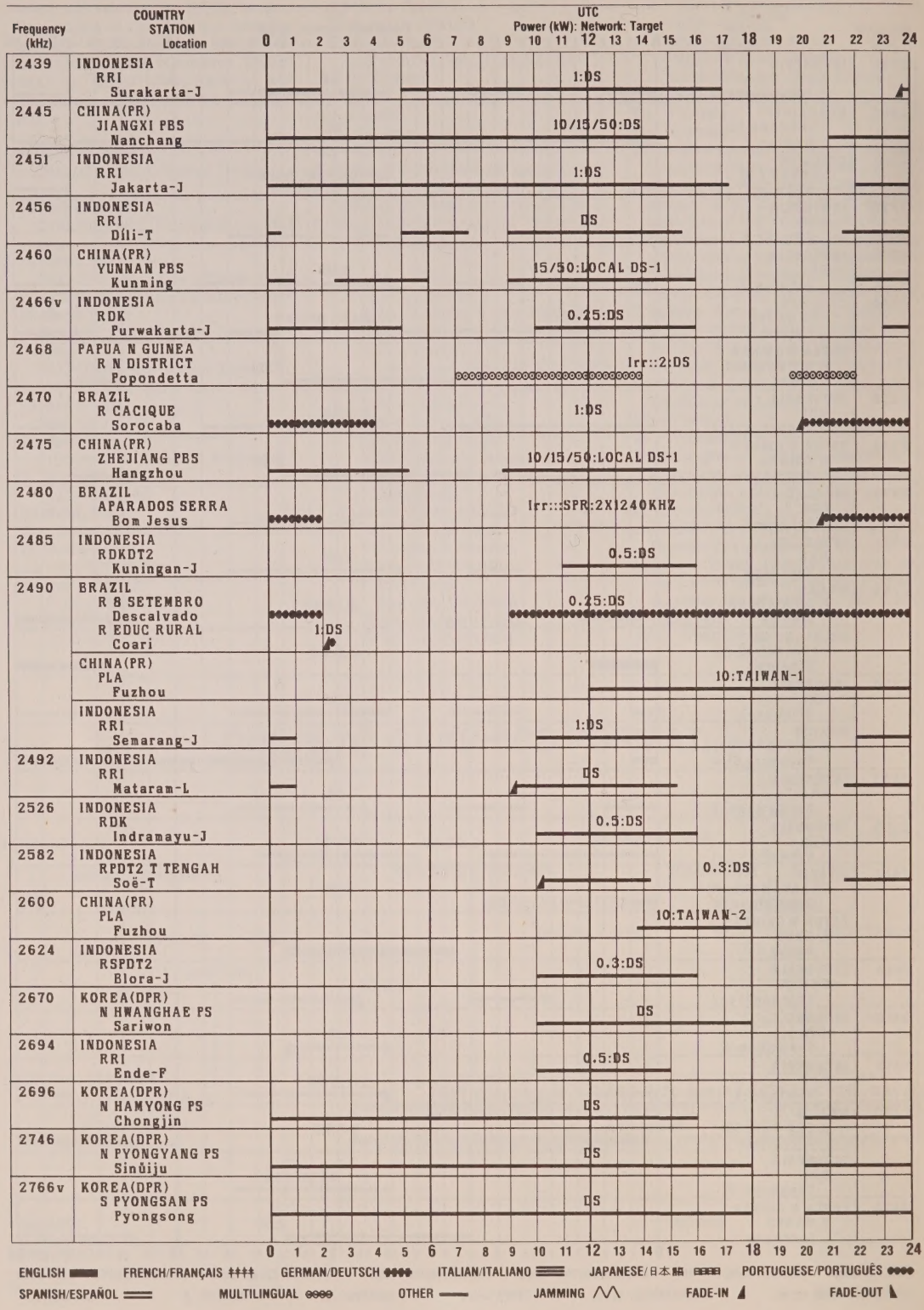
Frequency (kHz)	COUNTRY STATION Location	Power (kW): Network: Target
2260	INDONESIA RRI Purwokerto-J	1:DS
2300	KOREA(DPR) YANGGANG PS Hyesan	DS
2310	CHINA(PR) YUNNAN PBS Kunming	15/50:LOCAL DS2B
2325	INDONESIA RDK Cianjur-J	Irr::0,75:DS
2332	INDONESIA RRI Jakarta-J	5:DS
2340	CHINA(PR) FUJIAN PBS Fuzhou	10:LOC DS1/ES
	PAPUA N GUINEA R W N BRITAIN Kimbe	2:DS
2350	INDONESIA RRI Yogyakarta-J	1:DS
2376	PAPUA N GUINEA R CHIMBU Kundiawa	2:DS
2376v	INDONESIA RDK Subang-J	1:DS
2378	INDONESIA RRI Surabaya-J	1:DS
2380	BRAZIL R EDUCADORA Limeira	0.25:DS
	FALKLAND IS FALKLAND IS BS Stanley	3.5:DS
2390	INDONESIA RRI Cirebon-J	1:DS
	MEXICO R HUAYACOCOTLA Huayacocotla	0.5:DS
2403	INDONESIA RRI Banda Aceh-S	DS
2405	INDONESIA RDK Bekasi-J	0.75:DS
2410	BRAZIL TRANSAMAZONICA Sen Guiomard	1:DS
	PAPUA N GUINEA R ENGA Wabag	2:DS
2412	INDONESIA RKPDT2 Bojonegoro-J	0.15:DS
2418v	INDONESIA +RPD Samarinda-K	DS
2419	INDONESIA RRI Bandung-J	Irr::1:DS
2420	BRAZIL R SAO CARLOS São Carlos	0.5:DS
	INDONESIA RRI Denpasar-B	REPORTED
2428	PAPUA N GUINEA R MANUS Lorengau	2:DS

UTC

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

ENGLISH FRENCH/FRANÇAIS GERMAN/DEUTSCH ITALIAN/ITALIANO JAPANESE/日本語 PORTUGUESE/PORTUGUÊS

SPANISH/ESPAÑOL MULTILINGUAL OTHER JAMMING FADE-IN FADE-OUT


Frequency (kHz)
COUNTRY STATION Location
UTC
Power (kW): Network: Target
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
2439 INDONESIA RRI Surakarta-J
1:DS
2445 CHINA(PR) JIANGXI PBS Nanchang
10/15/50:DS
2451 INDONESIA RRI Jakarta-J
1:DS
2456 INDONESIA RRI Díli-T
DS
2460 CHINA(PR) YUNNAN PBS Kunming
15/50:LOCAL DS-1
2466v INDONESIA RDK Purwakarta-J
0.25:DS
2468 PAPUA N GUINEA R N DISTRICT Popondetta
Irr::2:DS
2470 BRAZIL R CACIQUE Sorocaba
1:DS
2475 CHINA(PR) ZHEJIANG PBS Hangzhou
10/15/50:LOCAL DS-1
2480 BRAZIL APARADOS SERRA Bom Jesus
Irr:::SPR:2X1240KHZ
2485 INDONESIA RDKDT2 Kuningan-J
0.5:DS
2490 BRAZIL R 8 SETEMBRO Descalvado
0.25:DS
R EDUC RURAL Coari
1:DS
CHINA(PR) PLA Fuzhou
10:TAIWAN-1
INDONESIA RRI Semarang-J
1:DS
2492 INDONESIA RRI Mataram-L
DS
2526 INDONESIA RDK Indramayu-J
0.5:DS
2582 INDONESIA RPDT2 T TENGAH Soë-T
0.3:DS
2600 CHINA(PR) PLA Fuzhou
10:TAIWAN-2
2624 INDONESIA RSPDT2 Blora-J
0.3:DS
2670 KOREA(DPR) N HWANGHAE PS Sariwon
DS
2694 INDONESIA RRI Ende-F
0.5:DS
2696 KOREA(DPR) N HAMYONG PS Chongjin
DS
2746 KOREA(DPR) N PYONGYANG PS Sinŭiju
DS
2766v KOREA(DPR) S PYONGSAN PS Pyongsong
DS
ENGLISH
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GERMAN/DEUTSCH
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JAPANESE/日本語
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MULTILINGUAL
OTHER
JAMMING
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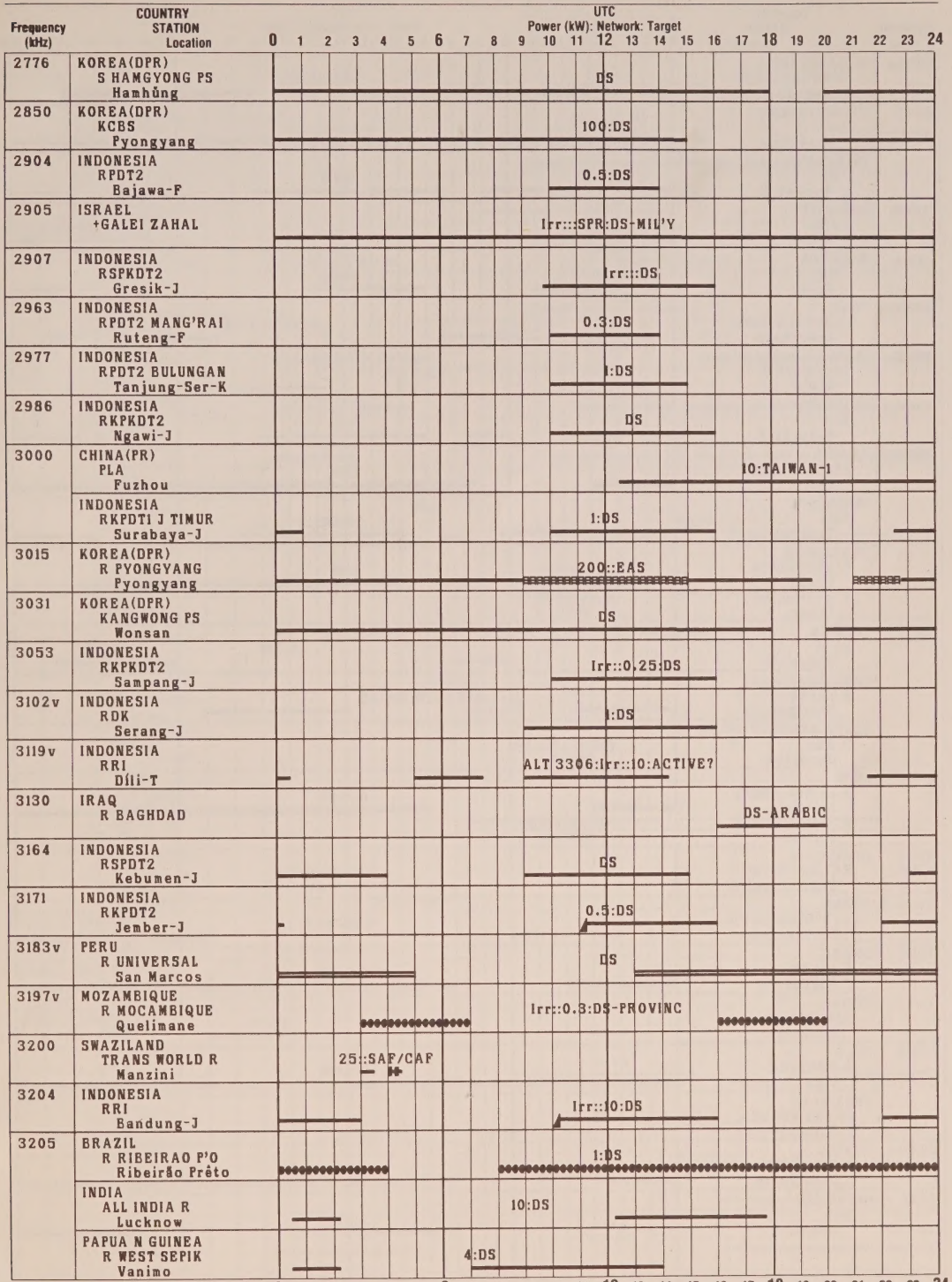
Frequency (kHz)
COUNTRY STATION Location
UTC
Power (kW): Network: Target
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
2776 KOREA(DPR) S HAMGYONG PS Hamhŭng DS
2850 KOREA(DPR) KCBS Pyongyang 100:DS
2904 INDONESIA RPDT2 Bajawa-F 0.5:DS
2905 ISRAEL +GALEI ZAHAL Irr:::SPR:DS-MIL'Y
2907 INDONESIA RSPKDT2 Gresik-J Irr:::DS
2963 INDONESIA RPDT2 MANG'RAI Ruteng-F 0.3:DS
2977 INDONESIA RPDT2 BULUNGAN Tanjung-Ser-K 1:DS
2986 INDONESIA RKPKDT2 Ngawi-J DS
3000 CHINA(PR) PLA Fuzhou 10:TAIWAN-1
INDONESIA RKPDTI J TIMUR Surabaya-J 1:DS
3015 KOREA(DPR) R PYONGYANG Pyongyang 200::EAS
3031 KOREA(DPR) KANGWONG PS Wonsan DS
3053 INDONESIA RKPKDT2 Sampang-J Irr::0.25:DS
3102v INDONESIA RDK Serang-J 1:DS
3119v INDONESIA RRI Díli-T ALT 3306:Irr::10:ACTIVE?
3130 IRAQ R BAGHDAD DS-ARABIC
3164 INDONESIA RSPDT2 Kebumen-J DS
3171 INDONESIA RKPDT2 Jember-J 0.5:DS
3183v PERU R UNIVERSAL San Marcos DS
3197v MOZAMBIQUE R MOCAMBIQUE Quelimane Irr::0.3:DS-PROVINC
3200 SWAZILAND TRANS WORLD R Manzini 25::SAF/CAF
3204 INDONESIA RRI Bandung-J Irr::10:DS
3205 BRAZIL R RIBEIRAO P'O Ribeirão Prêto 1:DS
INDIA ALL INDIA R Lucknow 10:DS
PAPUA N GUINEA R WEST SEPIK Vanimo 4:DS
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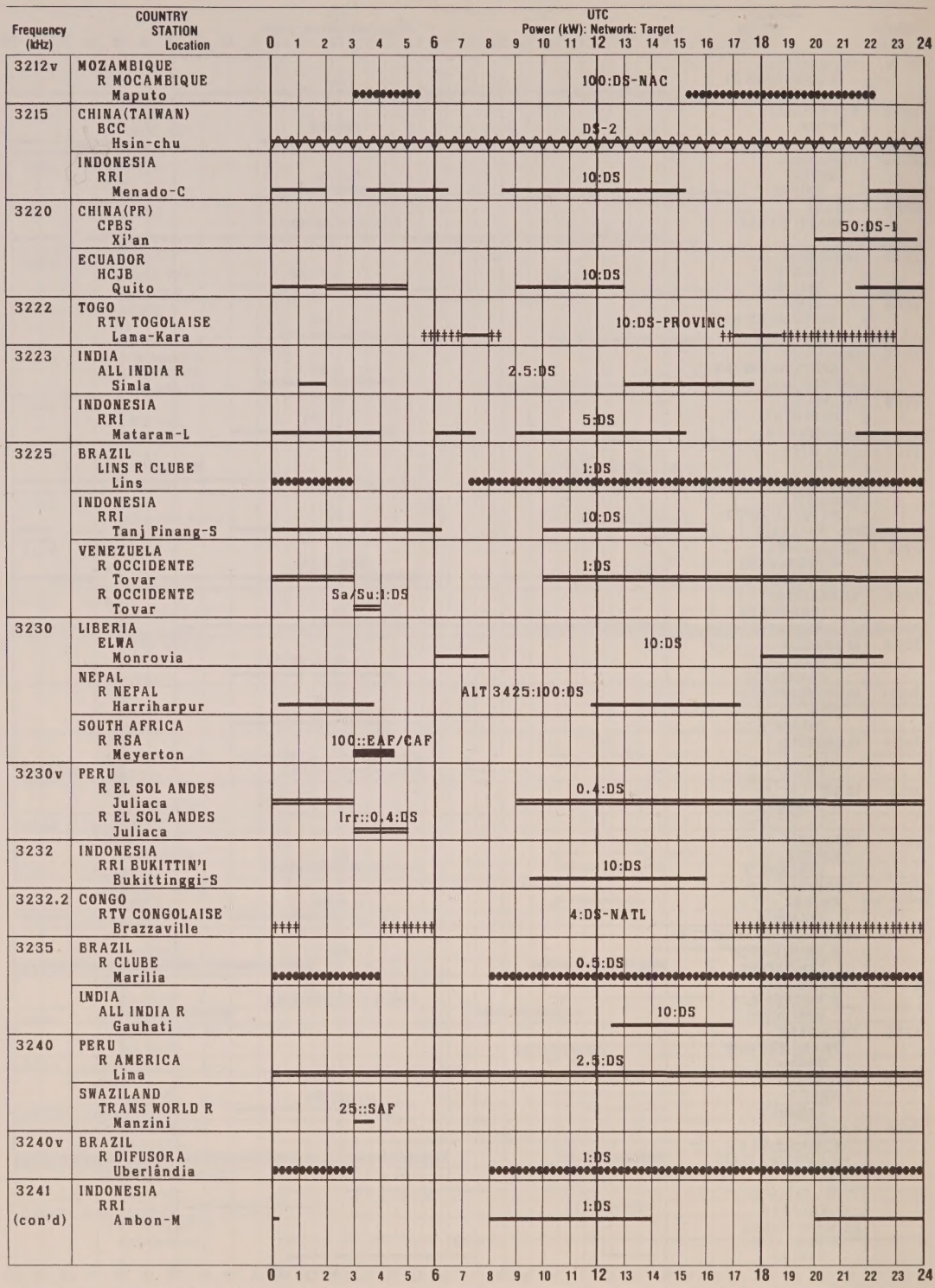
Frequency (kHz)
COUNTRY STATION Location
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Menado-C
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ECUADOR
HCJB
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1:DS
INDONESIA
RRI
Tanj Pinang-S
10:DS
VENEZUELA
R OCCIDENTE
Tovar
1:DS
R OCCIDENTE
Tovar
Sa/Su:1:DS
3230
LIBERIA
ELWA
Monrovia
10:DS
NEPAL
R NEPAL
Harriharpur
ALT 3425:100:DS
SOUTH AFRICA
R RSA
Meyerton
100::EAF/CAF
3230v
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0.4:DS
R EL SOL ANDES
Juliaca
Irr::0.4:DS
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INDONESIA
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Gauhati
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JAPANESE/日本語
PORTUGUESE/PORTUGUÊS
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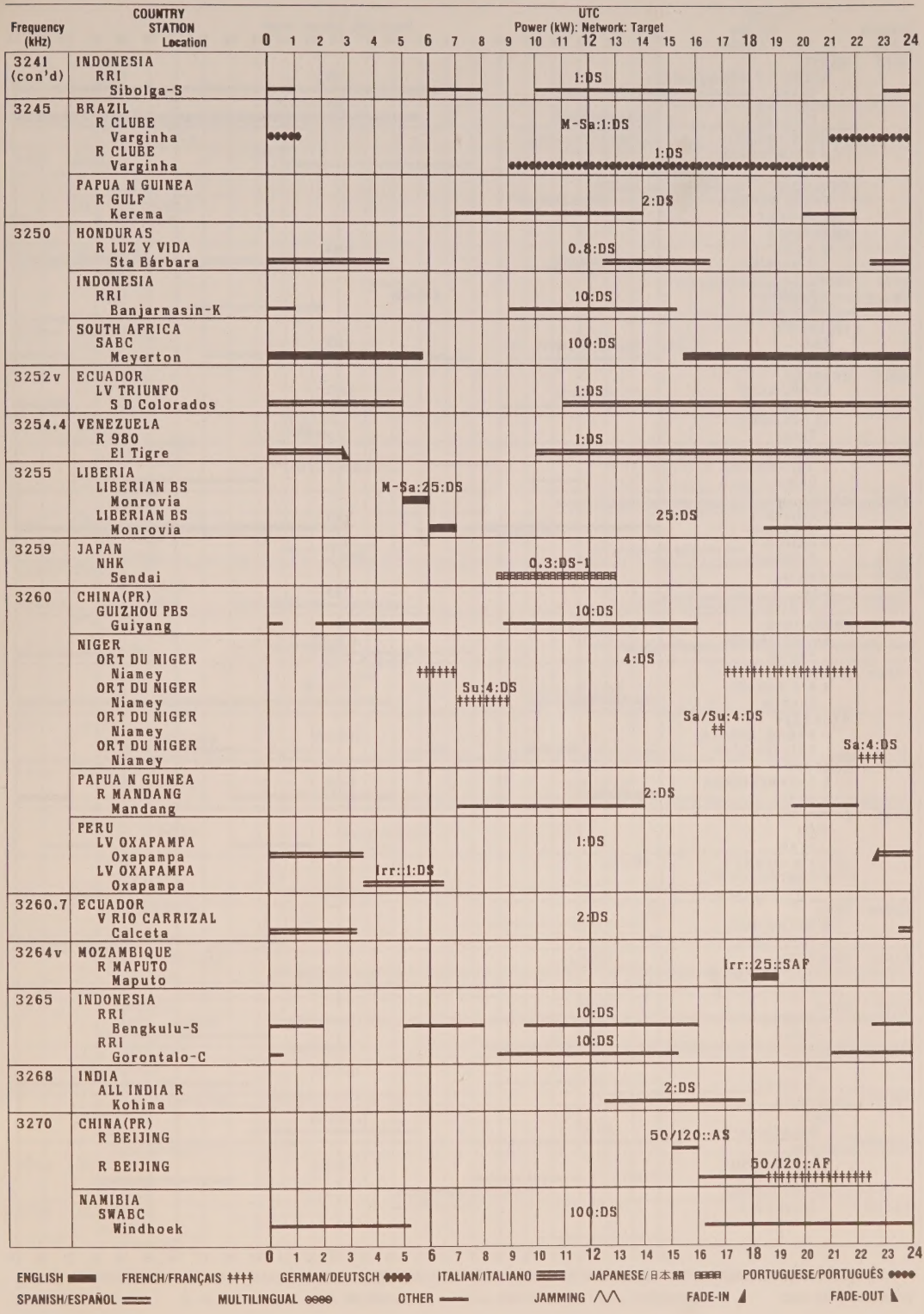
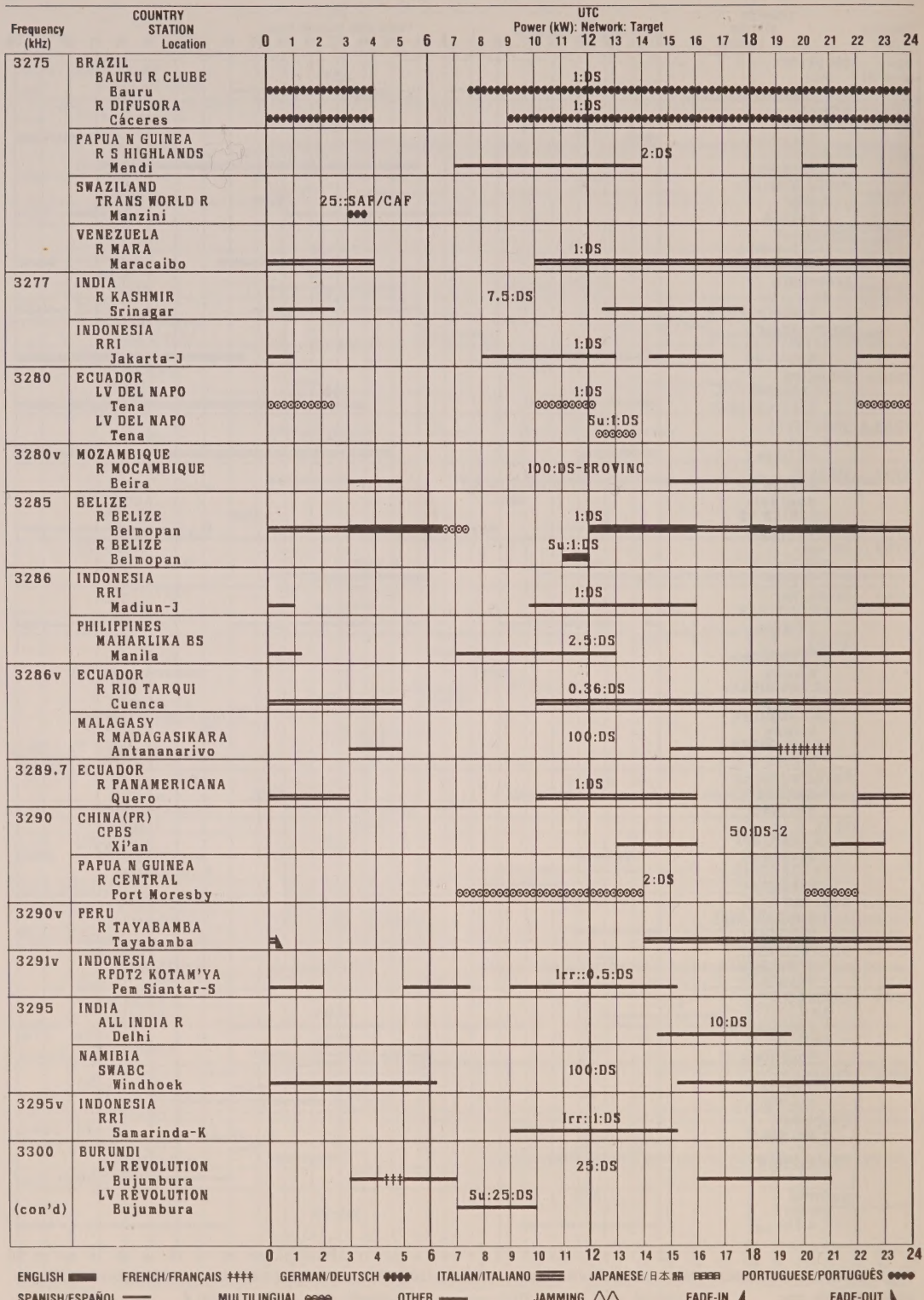
FADE-IN
FADE-OUT


Frequency (kHz)
COUNTRY STATION Location
UTC
Power (kW): Network: Target
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
3241 (con'd)
INDONESIA
RRI
Sibolga-S
1:DS
3245
BRAZIL
R CLUBE
Varginha
M-Sa:1:DS
R CLUBE
Varginha
1:DS
PAPUA N GUINEA
R GULF
Kerema
2:DS
3250
HONDURAS
R LUZ Y VIDA
Sta Bárbara
0.8:DS
INDONESIA
RRI
Banjarmasin-K
10:DS
SOUTH AFRICA
SABC
Meyerton
100:DS
3252v
ECUADOR
LV TRIUNFO
S D Colorados
1:DS
3254.4
VENEZUELA
R 980
El Tigre
1:DS
3255
LIBERIA
LIBERIAN BS
Monrovia
M-Sa:25:DS
LIBERIAN BS
Monrovia
25:DS
3259
JAPAN
NHK
Sendai
0.3:DS-1
3260
CHINA(PR)
GUIZHOU PBS
Guiyang
10:DS
NIGER
ORT DU NIGER
Niamey
4:DS
ORT DU NIGER
Niamey
Su:4:DS
ORT DU NIGER
Niamey
Sa/Su:4:DS
ORT DU NIGER
Niamey
Sa:4:DS
PAPUA N GUINEA
R MANDANG
Mandang
2:DS
PERU
LV OXAPAMPA
Oxapampa
1:DS
LV OXAPAMPA
Oxapampa
Irr::1:DS
3260.7
ECUADOR
V RIO CARRIZAL
Calceta
2:DS
3264v
MOZAMBIQUE
R MAPUTO
Maputo
Irr::25::SAF
3265
INDONESIA
RRI
Bengkulu-S
10:DS
RRI
Gorontalo-C
10:DS
3268
INDIA
ALL INDIA R
Kohima
2:DS
3270
CHINA(PR)
R BEIJING
50/120::AS
R BEIJING
50/120::AF
NAMIBIA
SWABC
Windhoek
100:DS
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
ENGLISH
FRENCH/FRANÇAIS
GERMAN/DEUTSCH
ITALIAN/ITALIANO
JAPANESE/日本語
PORTUGUESE/PORTUGUÊS
SPANISH/ESPAÑOL
MULTILINGUAL
OTHER
JAMMING
FADE-IN
FADE-OUT


Frequency (kHz)
COUNTRY STATION Location
UTC
Power (kW): Network: Target
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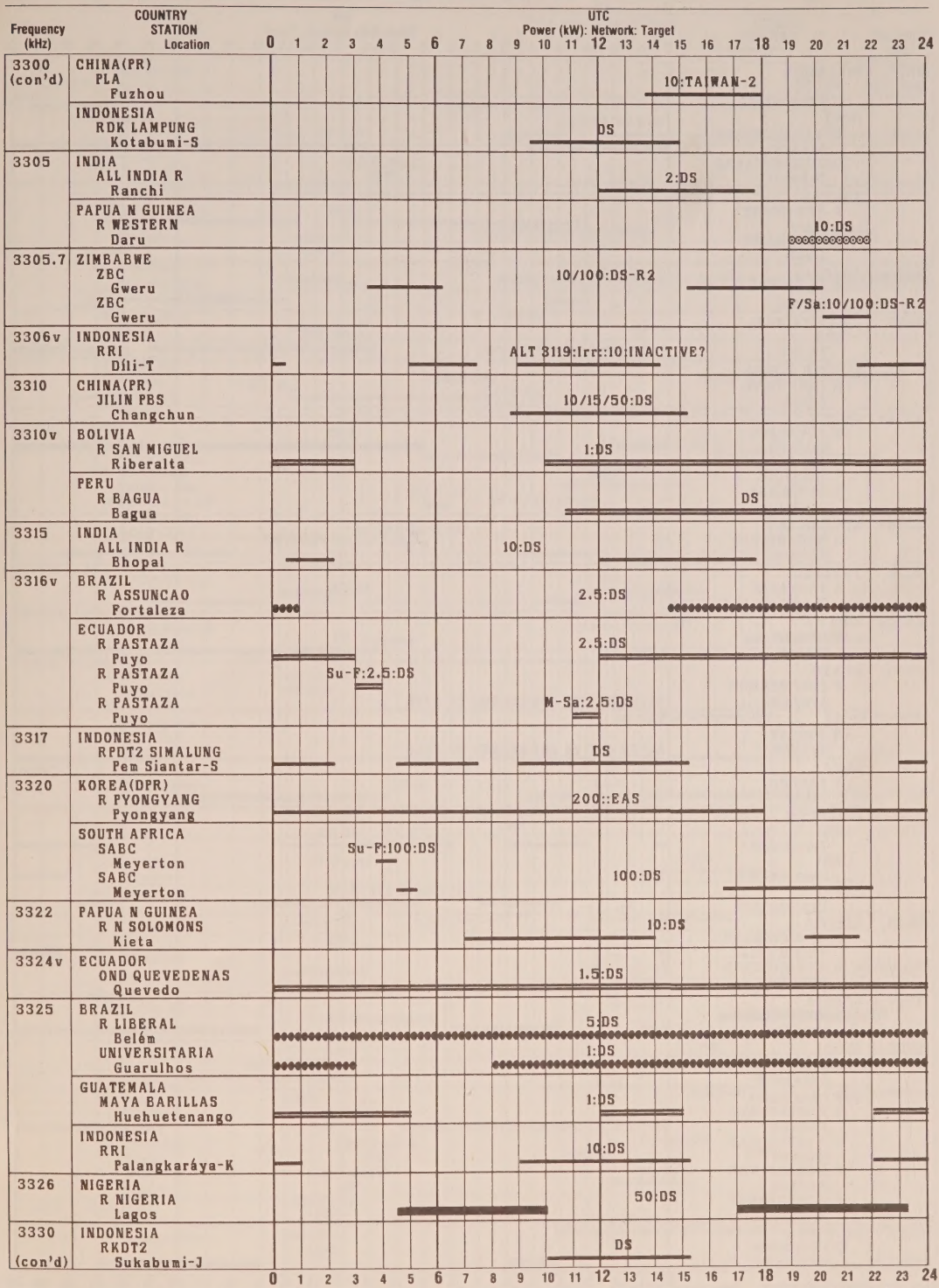
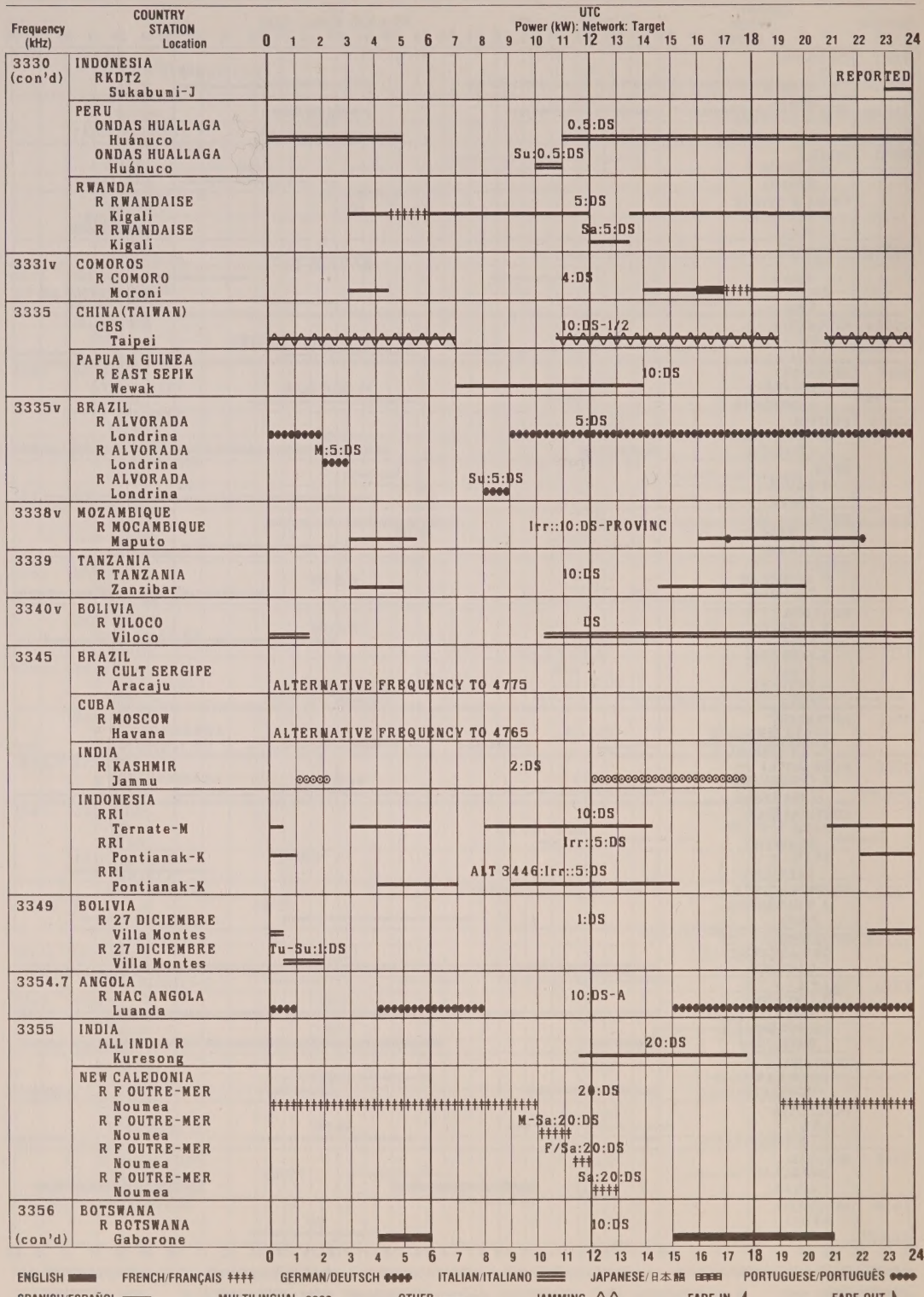
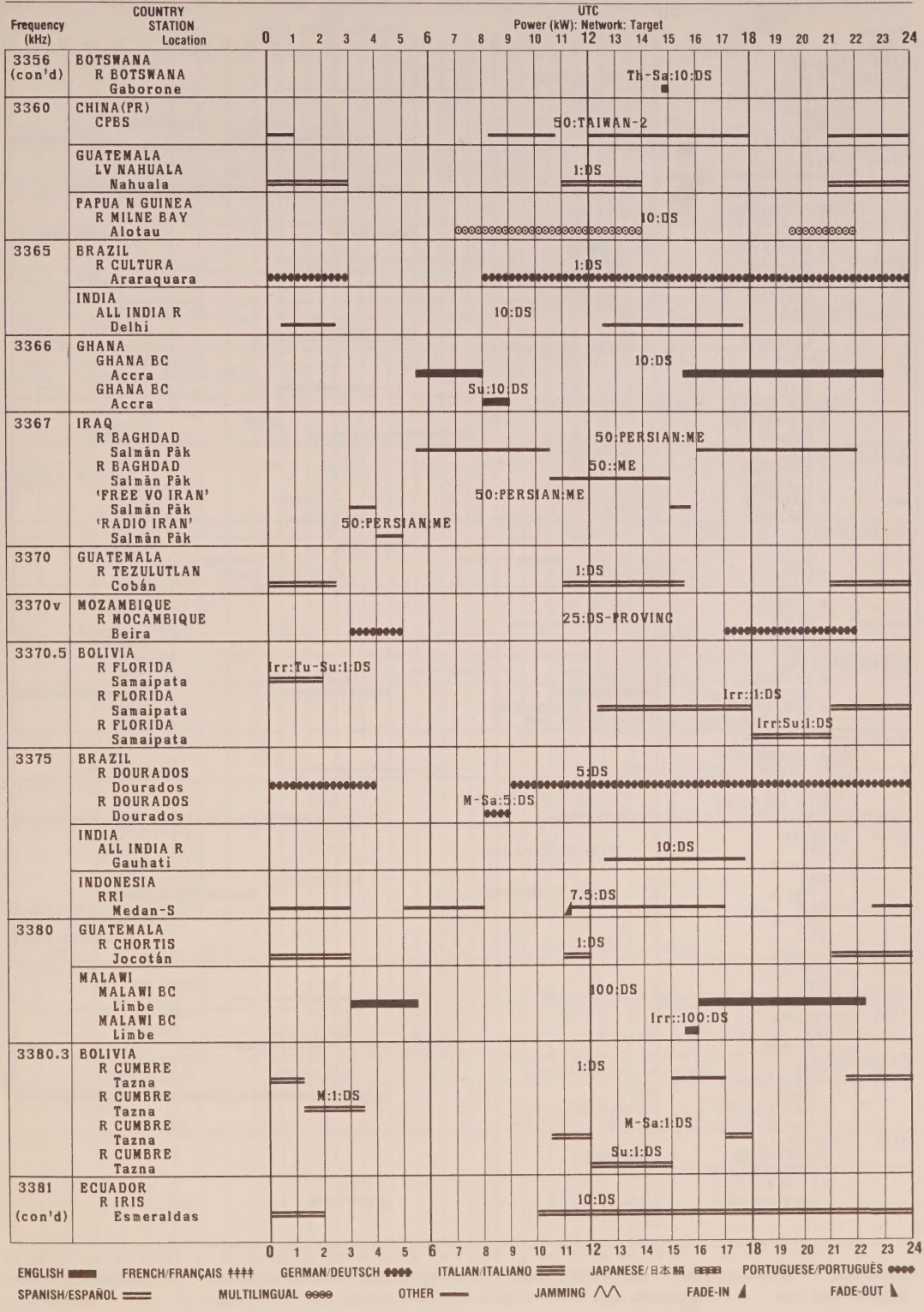
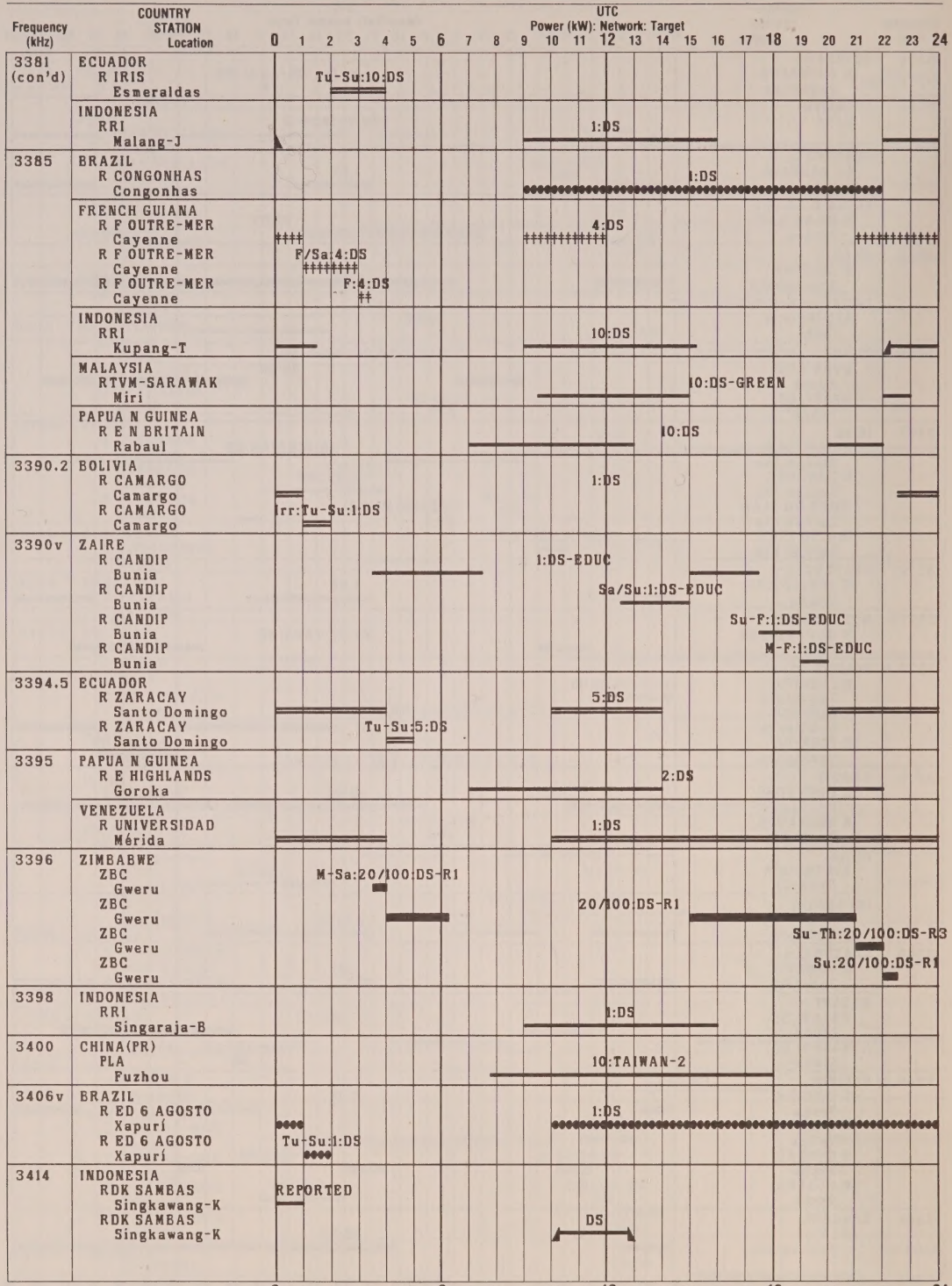
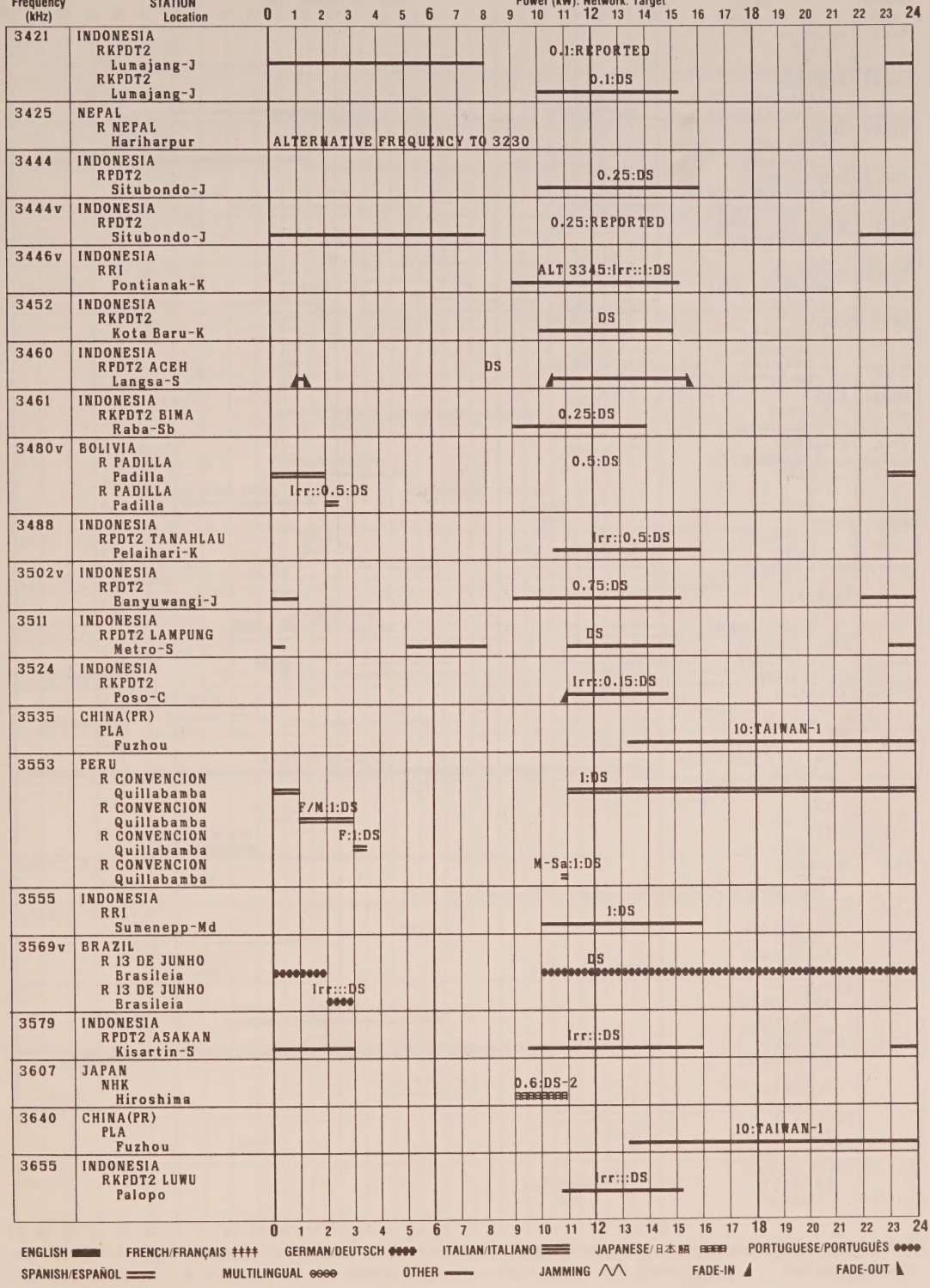
3275
BRAZIL
BAURU R CLUBE
Bauru
1:DS
R DIFUSORA
Cáceres
1:DS
PAPUA N GUINEA
R S HIGHLANDS
Mendi
2:DS
SWAZILAND
TRANS WORLD R
Manzini
25::SAF/CAF
VENEZUELA
R MARA
Maracaibo
1:DS
3277
INDIA
R KASHMIR
Srinagar
7.5:DS
INDONESIA
RRI
Jakarta-J
1:DS
3280
ECUADOR
LV DEL NAPO
Tena
1:DS
LV DEL NAPO
Tena
Su:1:DS
3280v
MOZAMBIQUE
R MOCAMBIQUE
Beira
100:DS-EROVINC
3285
BELIZE
R BELIZE
Belmopan
1:DS
R BELIZE
Belmopan
Su:1:DS
3286
INDONESIA
RRI
Madiun-J
1:DS
PHILIPPINES
MAHARLIKA BS
Manila
2.5:DS
3286v
ECUADOR
R RIO TARQUI
Cuenca
0.36:DS
MALAGASY
R MADAGASIKARA
Antananarivo
100:DS
3289.7
ECUADOR
R PANAMERICANA
Quero
1:DS
3290
CHINA(PR)
CPBS
Xi'an
50:DS-2
PAPUA N GUINEA
R CENTRAL
Port Moresby
2:DS
3290v
PERU
R TAYABAMBA
Tayabamba
3291v
INDONESIA
RPDT2 KOTAM'YA
Pem Siantar-S
Irr::0.5:DS
3295
INDIA
ALL INDIA R
Delhi
10:DS
NAMIBIA
SWABC
Windhoek
100:DS
3295v
INDONESIA
RRI
Samarinda-K
Irr::1:DS
3300
(con'd)
BURUNDI
LV REVOLUTION
Bujumbura
25:DS
LV REVOLUTION
Bujumbura
Su:25:DS
ENGLISH
FRENCH/FRANÇAIS
GERMAN/DEUTSCH
ITALIAN/ITALIANO
JAPANESE/日本語
PORTUGUESE/PORTUGUÊS
SPANISH/ESPAÑOL
MULTILINGUAL
OTHER
JAMMING
FADE-IN
FADE-OUT


Frequency (kHz)
COUNTRY STATION Location
UTC
Power (kW): Network: Target
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
3300 (con'd)
CHINA(PR) PLA Fuzhou
10:TA|WAN-2
INDONESIA RDK LAMPUNG Kotabumi-S
DS
3305
INDIA ALL INDIA R Ranchi
2:DS
PAPUA N GUINEA R WESTERN Daru
10:DS
3305.7
ZIMBABWE ZBC Gweru
10/100:DS-R2
ZBC Gweru
F/Sa:10/100:DS-R2
3306v
INDONESIA RRI Díli-T
ALT 3119:Irr::10:INACTIVE?
3310
CHINA(PR) JILIN PBS Changchun
10/15/50:DS
3310v
BOLIVIA R SAN MIGUEL Riberalta
1:DS
PERU R BAGUA Bagua
DS
3315
INDIA ALL INDIA R Bhopal
10:DS
3316v
BRAZIL R ASSUNCAO Fortaleza
2.5:DS
ECUADOR R PASTAZA Puyo
2.5:DS
R PASTAZA Puyo
Su-F:2.5:DS
R PASTAZA Puyo
M-Sa:2.5:DS
3317
INDONESIA RPDT2 SIMALUNG Pem Siantar-S
DS
3320
KOREA(DPR) R PYONGYANG Pyongyang
200::EAS
SOUTH AFRICA SABC Meyerton
Su-F:100:DS
SABC Meyerton
100:DS
3322
PAPUA N GUINEA R N SOLOMONS Kieta
10:DS
3324v
ECUADOR OND QUEVEDENAS Quevedo
1.5:DS
3325
BRAZIL R LIBERAL Belém
5:DS
UNIVERSITARIA Guarulhos
1:DS
GUATEMALA MAYA BARILLAS Huehuetenango
1:DS
INDONESIA RRI Palangkaráya-K
10:DS
3326
NIGERIA R NIGERIA Lagos
50:DS
3330 (con'd)
INDONESIA RKDT2 Sukabumi-J
DS
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
ENGLISH
FRENCH/FRANÇAIS
GERMAN/DEUTSCH
ITALIAN/ITALIANO
JAPANESE/日本語
PORTUGUESE/PORTUGUÊS
SPANISH/ESPAÑOL
MULTILINGUAL
OTHER
JAMMING
FADE-IN
FADE-OUT


Frequency (kHz)
COUNTRY STATION Location
UTC
Power (kW): Network: Target
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
3330 (con'd)
INDONESIA
RKDT2
Sukabumi-J
REPORTED
PERU
ONDAS HUALLAGA
Huánuco
0.5:DS
ONDAS HUALLAGA
Huánuco
Su:0.5:DS
RWANDA
R RWANDAISE
Kigali
5:DS
R RWANDAISE
Kigali
Sa:5:DS
3331v
COMOROS
R COMORO
Moroni
4:DS
3335
CHINA(TAIWAN)
CBS
Taipei
10:DS-1/2
PAPUA N GUINEA
R EAST SEPIK
Wewak
10:DS
3335v
BRAZIL
R ALVORADA
Londrina
5:DS
R ALVORADA
Londrina
M:5:DS
R ALVORADA
Londrina
Su:5:DS
3338v
MOZAMBIQUE
R MOCAMBIQUE
Maputo
Irr::10:DS-PROVINC
3339
TANZANIA
R TANZANIA
Zanzibar
10:DS
3340v
BOLIVIA
R VILOCO
Viloco
DS
3345
BRAZIL
R CULT SERGIPE
Aracaju
ALTERNATIVE FREQUENCY TO 4775
CUBA
R MOSCOW
Havana
ALTERNATIVE FREQUENCY TO 4765
INDIA
R KASHMIR
Jammu
2:DS
INDONESIA
RRI
Ternate-M
10:DS
RRI
Pontianak-K
Irr::5:DS
RRI
Pontianak-K
ALT 3446:Irr::5:DS
3349
BOLIVIA
R 27 DICIEMBRE
Villa Montes
1:DS
R 27 DICIEMBRE
Villa Montes
Tu-Su:1:DS
3354.7
ANGOLA
R NAC ANGOLA
Luanda
10:DS-A
3355
INDIA
ALL INDIA R
Kuresong
20:DS
NEW CALEDONIA
R F OUTRE-MER
Noumea
20:DS
R F OUTRE-MER
Noumea
M-Sa:20:DS
R F OUTRE-MER
Noumea
F/Sa:20:DS
R F OUTRE-MER
Noumea
Sa:20:DS
3356 (con'd)
BOTSWANA
R BOTSWANA
Gaborone
10:DS
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
ENGLISH
FRENCH/FRANÇAIS
GERMAN/DEUTSCH
ITALIAN/ITALIANO
JAPANESE/日本語
PORTUGUESE/PORTUGUÊS
SPANISH/ESPAÑOL
MULTILINGUAL
OTHER
JAMMING
FADE-IN
FADE-OUT


Frequency (kHz)
COUNTRY STATION Location
UTC
Power (kW): Network: Target
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
3356 (con'd)
BOTSWANA
R BOTSWANA
Gaborone
Th-Sa:10:DS
3360
CHINA(PR)
CPBS
50:TAIWAN-2
GUATEMALA
LV NAHUALA
Nahuala
1:DS
PAPUA N GUINEA
R MILNE BAY
Alotau
10:DS
3365
BRAZIL
R CULTURA
Araraquara
1:DS
INDIA
ALL INDIA R
Delhi
10:DS
3366
GHANA
GHANA BC
Accra
10:DS
GHANA BC
Accra
Su:10:DS
3367
IRAQ
R BAGHDAD
Salmān Pāk
50:PERSIAN:ME
R BAGHDAD
Salmān Pāk
50::ME
'FREE VO IRAN'
Salmān Pāk
50:PERSIAN:ME
'RADIO IRAN'
Salmān Pāk
50:PERSIAN:ME
3370
GUATEMALA
R TEZULUTLAN
Cobán
1:DS
3370v
MOZAMBIQUE
R MOCAMBIQUE
Beira
25:DS-PROVINC
3370.5
BOLIVIA
R FLORIDA
Samaipata
Irr:Tu-Su:1:DS
R FLORIDA
Samaipata
Irr::1:DS
R FLORIDA
Samaipata
Irr:Su:1:DS
3375
BRAZIL
R DOURADOS
Dourados
5:DS
R DOURADOS
Dourados
M-Sa:5:DS
INDIA
ALL INDIA R
Gauhati
10:DS
INDONESIA
RRI
Medan-S
7.5:DS
3380
GUATEMALA
R CHORTIS
Jocotán
1:DS
MALAWI
MALAWI BC
Limbe
100:DS
MALAWI BC
Limbe
Irr::100:DS
3380.3
BOLIVIA
R CUMBRE
Tazna
1:DS
R CUMBRE
Tazna
M:1:DS
R CUMBRE
Tazna
M-Sa:1:DS
R CUMBRE
Tazna
Su:1:DS
3381 (con'd)
ECUADOR
R IRIS
Esmeraldas
10:DS
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
ENGLISH
FRENCH/FRANÇAIS
GERMAN/DEUTSCH
ITALIAN/ITALIANO
JAPANESE/日本語
PORTUGUESE/PORTUGUÊS
SPANISH/ESPAÑOL
MULTILINGUAL
OTHER
JAMMING
FADE-IN
FADE-OUT


Frequency (kHz)
COUNTRY STATION Location
UTC
Power (kW): Network: Target
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
3381 (con'd)
ECUADOR
R IRIS
Esmeraldas
Tu-Su:10:DS
INDONESIA
RRI
Malang-J
1:DS
3385
BRAZIL
R CONGONHAS
Congonhas
1:DS
FRENCH GUIANA
R F OUTRE-MER
Cayenne
4:DS
R F OUTRE-MER
Cayenne
F/Sa:4:DS
R F OUTRE-MER
Cayenne
F:4:DS
INDONESIA
RRI
Kupang-T
10:DS
MALAYSIA
RTVM-SARAWAK
Miri
10:DS-GREEN
PAPUA N GUINEA
R E N BRITAIN
Rabaul
10:DS
3390.2
BOLIVIA
R CAMARGO
Camargo
1:DS
R CAMARGO
Camargo
Irr:Tu-Su:1:DS
3390v
ZAIRE
R CANDIP
Bunia
1:DS-EDUC
R CANDIP
Bunia
Sa/Su:1:DS-EDUC
R CANDIP
Bunia
Su-F:1:DS-EDUC
R CANDIP
Bunia
M-F:1:DS-EDUC
3394.5
ECUADOR
R ZARACAY
Santo Domingo
5:DS
R ZARACAY
Santo Domingo
Tu-Su:5:DS
3395
PAPUA N GUINEA
R E HIGHLANDS
Goroka
2:DS
VENEZUELA
R UNIVERSIDAD
Mérida
1:DS
3396
ZIMBABWE
ZBC
Gweru
M-Sa:20/100:DS-R1
ZBC
Gweru
20/100:DS-R1
ZBC
Gweru
Su-Th:20/100:DS-R3
ZBC
Gweru
Su:20/100:DS-R1
3398
INDONESIA
RRI
Singaraja-B
1:DS
3400
CHINA(PR)
PLA
Fuzhou
10:TAIWAN-2
3406v
BRAZIL
R ED 6 AGOSTO
Xapurí
1:DS
R ED 6 AGOSTO
Xapurí
Tu-Su:1:DS
3414
INDONESIA
RDK SAMBAS
Singkawang-K
REPORTED
RDK SAMBAS
Singkawang-K
DS
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
ENGLISH
FRENCH/FRANÇAIS
GERMAN/DEUTSCH
ITALIAN/ITALIANO
JAPANESE/日本語
PORTUGUESE/PORTUGUÊS
SPANISH/ESPAÑOL
MULTILINGUAL
OTHER
JAMMING
FADE-IN
FADE-OUT


Frequency (kHz)
COUNTRY STATION Location
UTC
Power (kW): Network: Target
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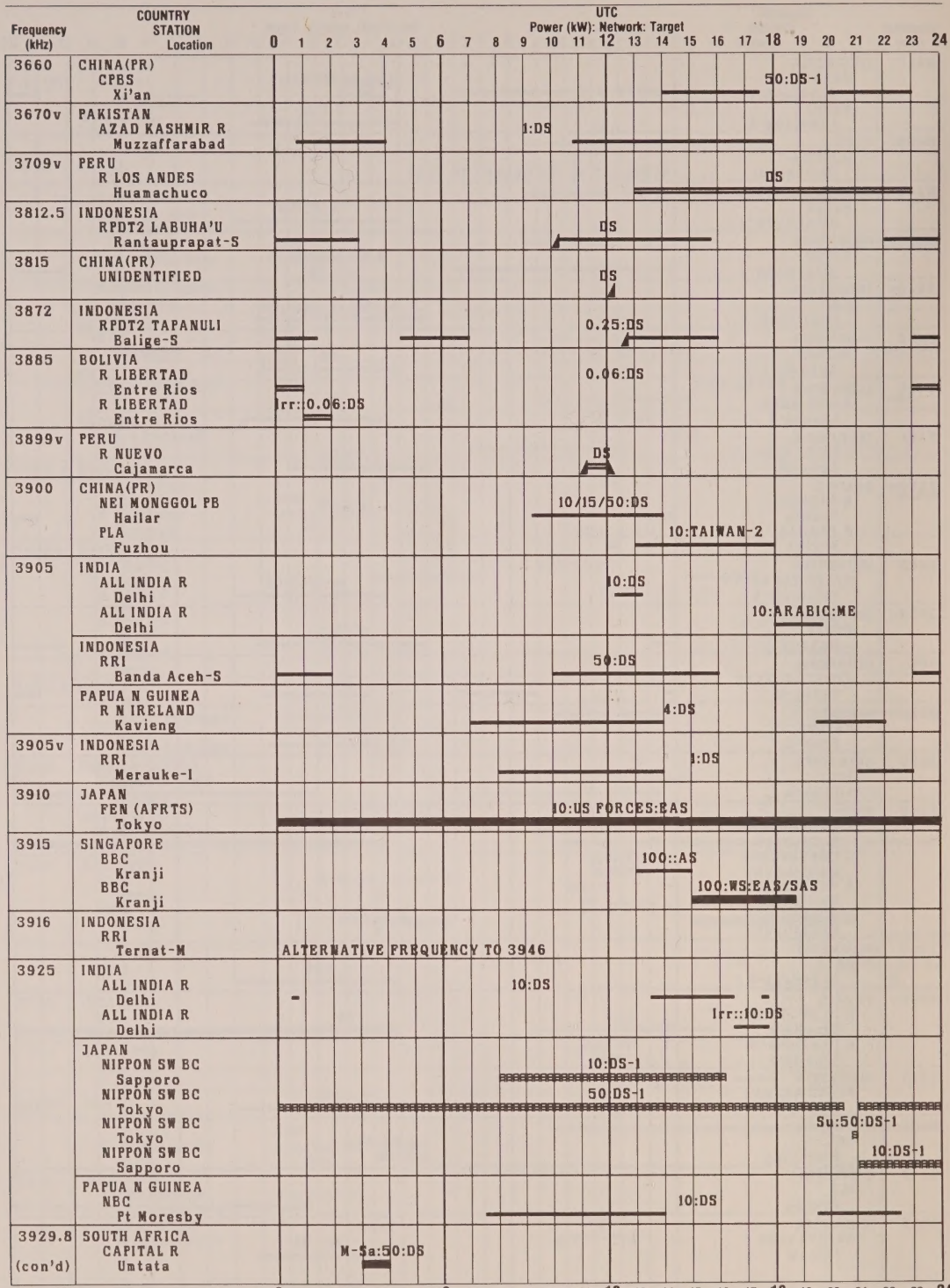
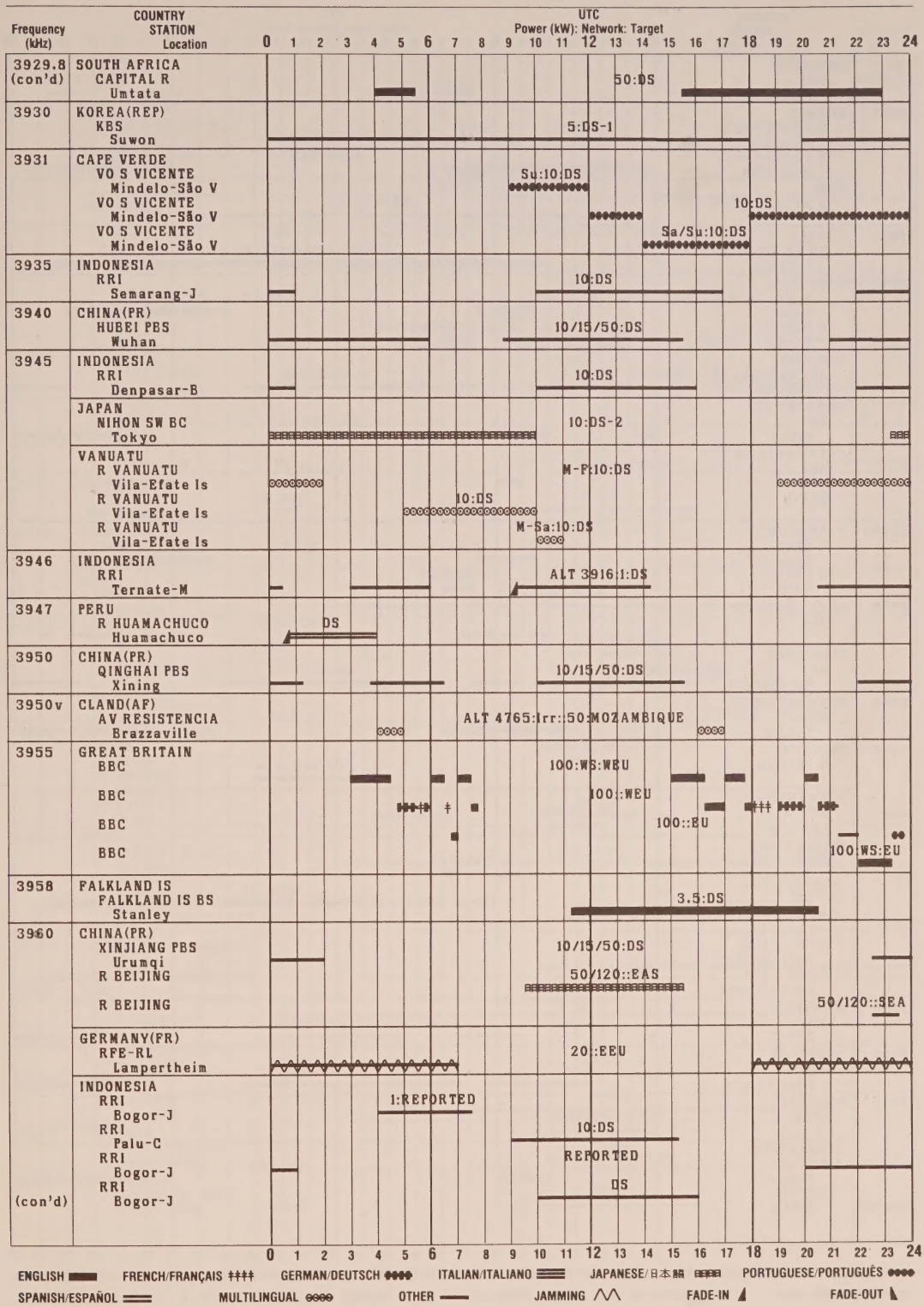
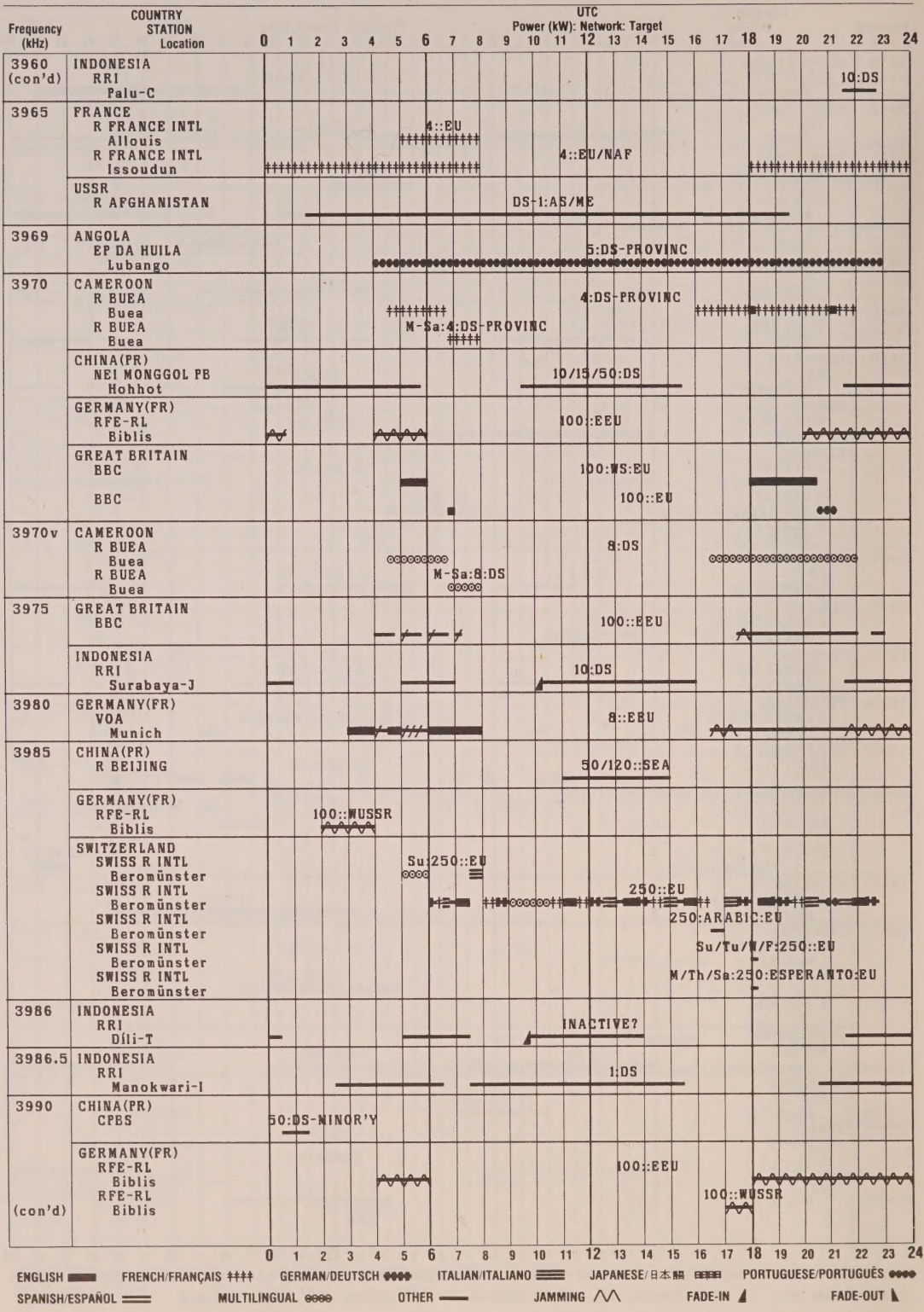
3421 INDONESIA RKPDT2 Lumajang-J RKPDT2 Lumajang-J
0.1:REPORTED
0.1:DS
3425 NEPAL R NEPAL Hariharpur
ALTERNATIVE FREQUENCY TO 3230
3444 INDONESIA RPDT2 Situbondo-J
0.25:DS
3444v INDONESIA RPDT2 Situbondo-J
0.25:REPORTED
3446v INDONESIA RRI Pontianak-K
ALT 3345:Irr::1:DS
3452 INDONESIA RKPDT2 Kota Baru-K
DS
3460 INDONESIA RPDT2 ACEH Langsa-S
DS
3461 INDONESIA RKPDT2 BIMA Raba-Sb
0.25:DS
3480v BOLIVIA R PADILLA Padilla R PADILLA Padilla
0.5:DS
Irr::0.5:DS
3488 INDONESIA RPDT2 TANAHLAU Pelaihari-K
Irr::0.5:DS
3502v INDONESIA RPDT2 Banyuwangi-J
0.75:DS
3511 INDONESIA RPDT2 LAMPUNG Metro-S
DS
3524 INDONESIA RKPDT2 Poso-C
Irr::0.15:DS
3535 CHINA(PR) PLA Fuzhou
10:TAIWAN-1
3553 PERU R CONVENCION Quillabamba R CONVENCION Quillabamba R CONVENCION Quillabamba R CONVENCION Quillabamba
1:DS
F/M:1:DS
F:1:DS
M-Sa:1:DS
3555 INDONESIA RRI Sumenepp-Md
1:DS
3569v BRAZIL R 13 DE JUNHO Brasileia R 13 DE JUNHO Brasileia
DS
Irr:::DS
3579 INDONESIA RPDT2 ASAKAN Kisartin-S
Irr::.DS
3607 JAPAN NHK Hiroshima
0.6:DS-2
3640 CHINA(PR) PLA Fuzhou
10:TAIWAN-1
3655 INDONESIA RKPDT2 LUWU Palopo
Irr:::DS
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
ENGLISH
FRENCH/FRANÇAIS
GERMAN/DEUTSCH
ITALIAN/ITALIANO
JAPANESE/日本語
PORTUGUESE/PORTUGUÊS
SPANISH/ESPAÑOL
MULTILINGUAL
OTHER
JAMMING
FADE-IN
FADE-OUT


Frequency (kHz)
COUNTRY STATION Location
UTC
Power (kW): Network: Target
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
3660
CHINA(PR)
CPBS
Xi'an
50:DS-1
3670v
PAKISTAN
AZAD KASHMIR R
Muzzafarabad
1:DS
3709v
PERU
R LOS ANDES
Huamachuco
DS
3812.5
INDONESIA
RPDT2 LABUHA'U
Rantauprapat-S
DS
3815
CHINA(PR)
UNIDENTIFIED
DS
3872
INDONESIA
RPDT2 TAPANULI
Balige-S
0.25:DS
3885
BOLIVIA
R LIBERTAD
Entre Rios
R LIBERTAD
Entre Rios
0.06:DS
Irr::0.06:DS
3899v
PERU
R NUEVO
Cajamarca
DS
3900
CHINA(PR)
NEI MONGGOL PB
Hailar
PLA
Fuzhou
10/15/50:DS
10:TAIWAN-2
3905
INDIA
ALL INDIA R
Delhi
ALL INDIA R
Delhi
10:DS
10:ARABIC:ME
INDONESIA
RRI
Banda Aceh-S
50:DS
PAPUA N GUINEA
R N IRELAND
Kavieng
4:DS
3905v
INDONESIA
RRI
Merauke-I
1:DS
3910
JAPAN
FEN (AFRTS)
Tokyo
10:US FORCES:EAS
3915
SINGAPORE
BBC
Kranji
BBC
Kranji
100::AS
100:WS:EAS/SAS
3916
INDONESIA
RRI
Ternat-M
ALTERNATIVE FREQUENCY TO 3946
3925
INDIA
ALL INDIA R
Delhi
ALL INDIA R
Delhi
10:DS
Irr::10:DS
JAPAN
NIPPON SW BC
Sapporo
NIPPON SW BC
Tokyo
NIPPON SW BC
Tokyo
NIPPON SW BC
Sapporo
10:DS-1
50:DS-1
Su:50:DS-1
10:DS-1
PAPUA N GUINEA
NBC
Pt Moresby
10:DS
3929.8 (con'd)
SOUTH AFRICA
CAPITAL R
Umtata
M-Sa:50:DS
ENGLISH
FRENCH/FRANÇAIS
GERMAN/DEUTSCH
ITALIAN/ITALIANO
JAPANESE/日本語
PORTUGUESE/PORTUGUÊS
SPANISH/ESPAÑOL
MULTILINGUAL
OTHER
JAMMING
FADE-IN
FADE-OUT


Frequency (kHz)
COUNTRY STATION Location
UTC
Power (kW): Network: Target
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
3929.8 (con'd)
SOUTH AFRICA
CAPITAL R
Umtata
50:DS
3930
KOREA(REP)
KBS
Suwon
5:DS-1
3931
CAPE VERDE
VO S VICENTE
Mindelo-São V
Su:10:DS
VO S VICENTE
Mindelo-São V
10:DS
VO S VICENTE
Mindelo-São V
Sa/Su:10:DS
3935
INDONESIA
RRI
Semarang-J
10:DS
3940
CHINA(PR)
HUBEI PBS
Wuhan
10/15/50:DS
3945
INDONESIA
RRI
Denpasar-B
10:DS
JAPAN
NIHON SW BC
Tokyo
10:DS-2
VANUATU
R VANUATU
Vila-Efate Is
M-F:10:DS
R VANUATU
Vila-Efate Is
10:DS
R VANUATU
Vila-Efate Is
M-Sa:10:DS
3946
INDONESIA
RRI
Ternate-M
ALT 3916:1:DS
3947
PERU
R HUAMACHUCO
Huamachuco
DS
3950
CHINA(PR)
QINGHAI PBS
Xining
10/15/50:DS
3950v
CLAND(AF)
AV RESISTENCIA
Brazzaville
ALT 4765:1rr:50:MOZAMBIQUE
3955
GREAT BRITAIN
BBC
100:WS:WEU
BBC
100::WEU
BBC
100::EU
BBC
100:WS:EU
3958
FALKLAND IS
FALKLAND IS BS
Stanley
3.5:DS
3960
CHINA(PR)
XINJIANG PBS
Urumqi
10/15/50:DS
R BEIJING
50/120::EAS
R BEIJING
50/120::SEA
GERMANY(FR)
RFE-RL
Lampertheim
20::EEU
INDONESIA
RRI
Bogor-J
1:REPORTED
RRI
Palu-C
10:DS
RRI
Bogor-J
REPORTED
RRI
Bogor-J
(con'd)
DS
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
ENGLISH
FRENCH/FRANÇAIS
GERMAN/DEUTSCH
ITALIAN/ITALIANO
JAPANESE/日本語
PORTUGUESE/PORTUGUÊS
SPANISH/ESPAÑOL
MULTILINGUAL
OTHER
JAMMING
FADE-IN
FADE-OUT


Frequency (kHz)
COUNTRY STATION Location
UTC
Power (kW): Network: Target
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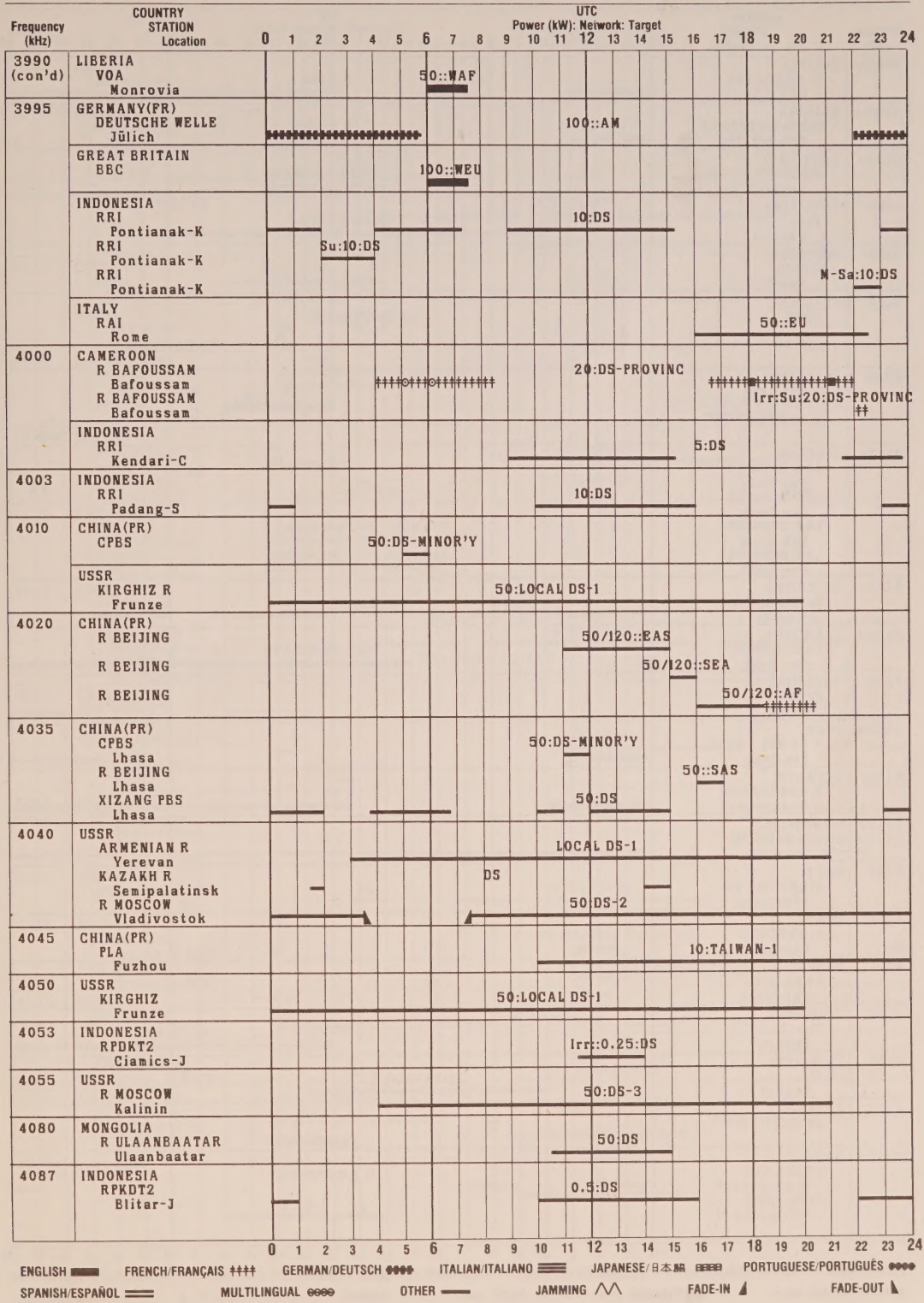
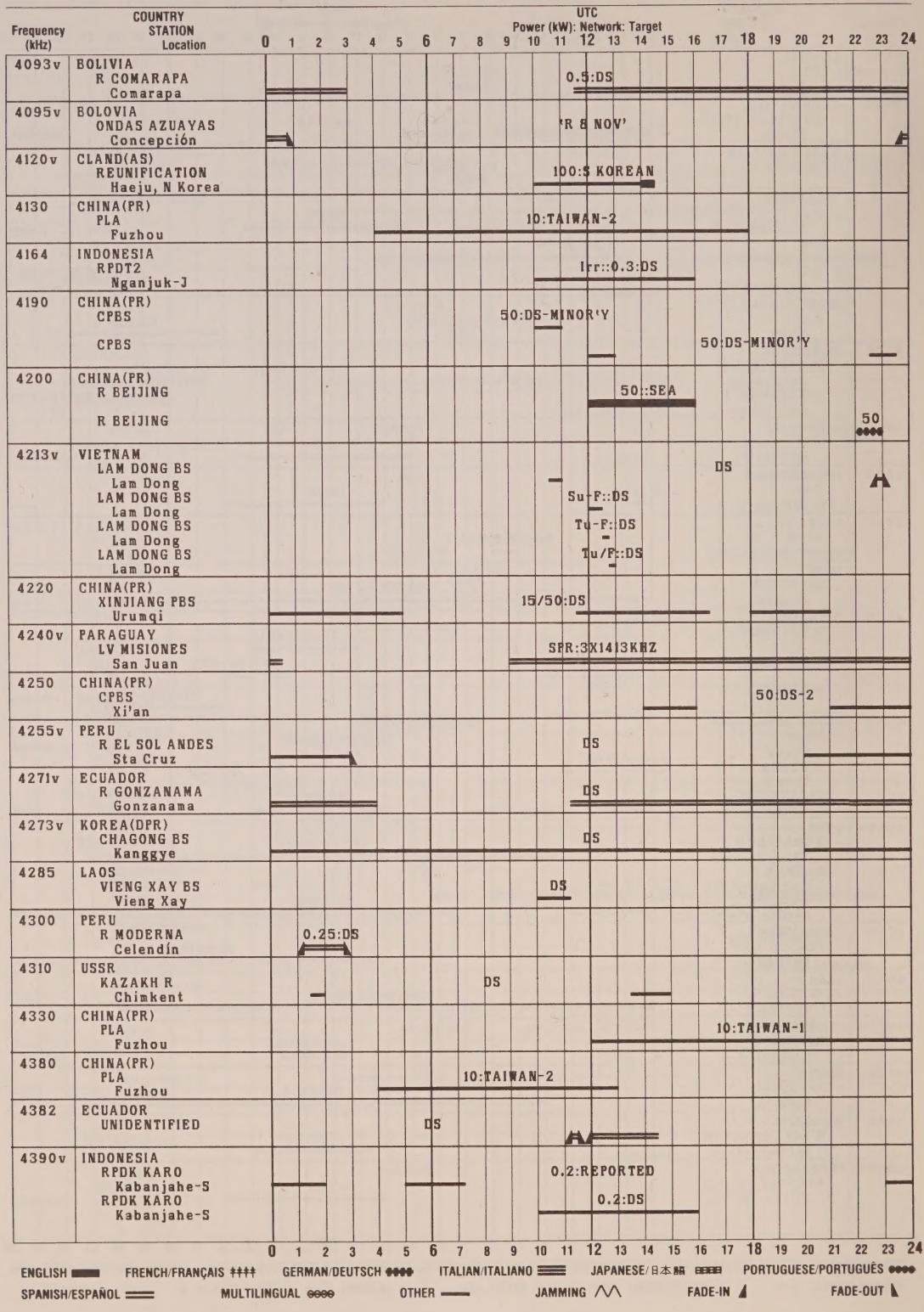
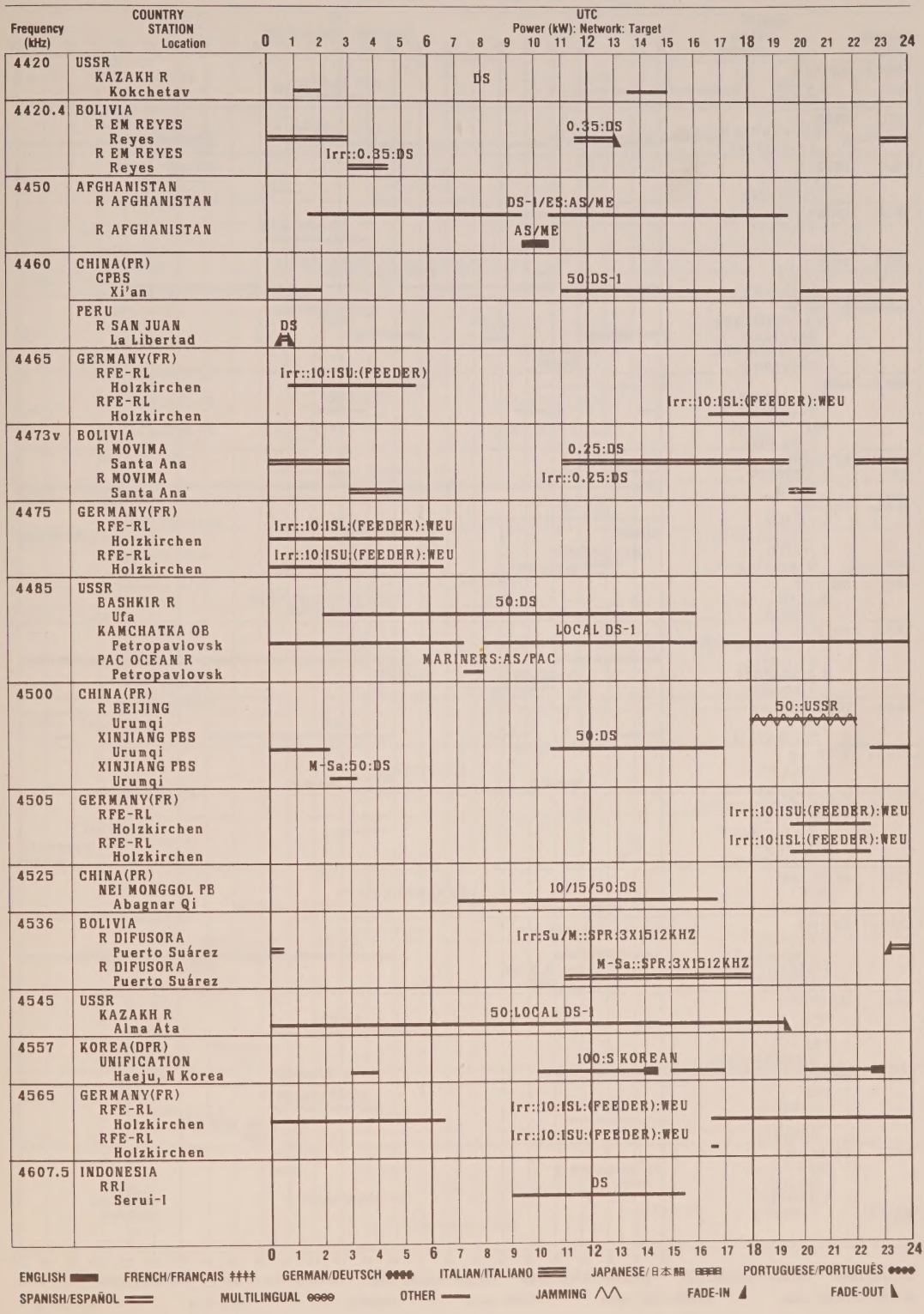
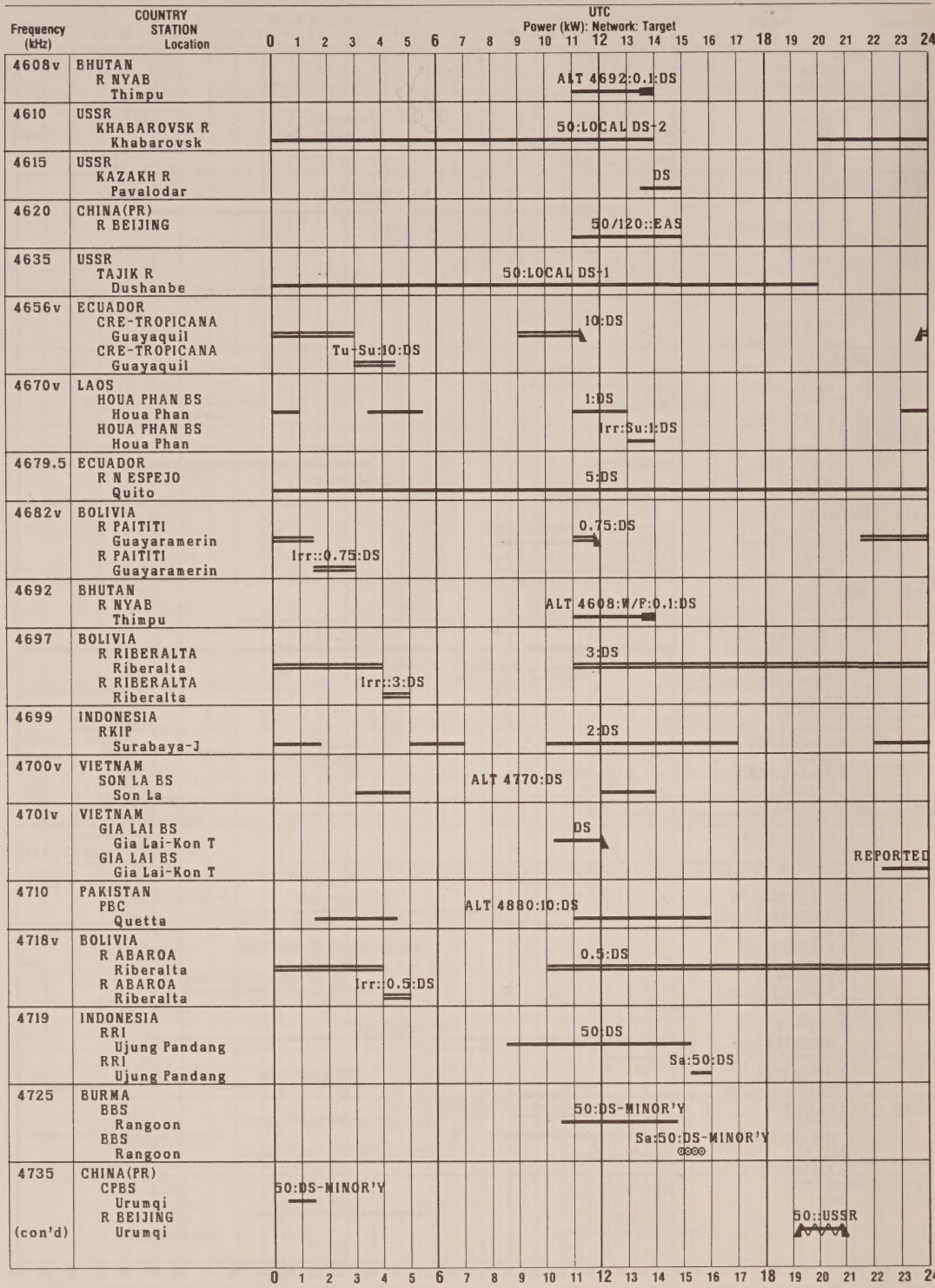
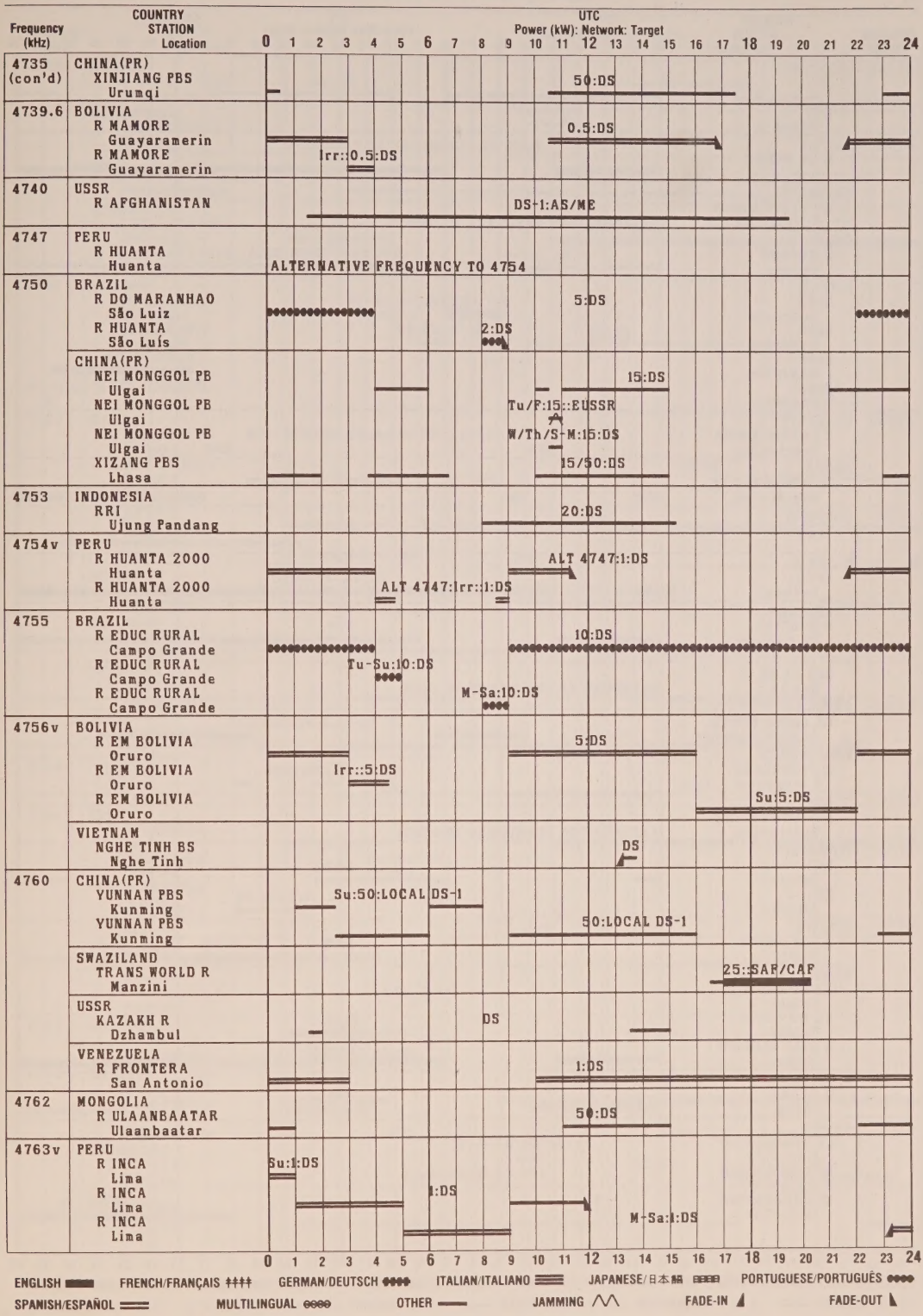
3960 (con'd)
INDONESIA
RRI
Palu-C
10:DS
3965
FRANCE
R FRANCE INTL
Allouis
4::EU
R FRANCE INTL
Issoudun
4::EU/NAF
USSR
R AFGHANISTAN
DS+1:AS/ME
3969
ANGOLA
EP DA HUILA
Lubango
5:DS-PROVINC
3970
CAMEROON
R BUEA
Buea
4:DS-PROVINC
R BUEA
Buea
M-Sa:4:DS-PROVINC
CHINA(PR)
NEI MONGGOL PB
Hohhot
10/15/50:DS
GERMANY(FR)
RFE-RL
Biblis
100::EEU
GREAT BRITAIN
BBC
100:WS:EU
BBC
100::EU
3970v
CAMEROON
R BUEA
Buea
8:DS
R BUEA
Buea
M-Sa:8:DS
3975
GREAT BRITAIN
BBC
100::EEU
INDONESIA
RRI
Surabaya-J
10:DS
3980
GERMANY(FR)
VOA
Munich
8::EEU
3985
CHINA(PR)
R BEIJING
50/120::SEA
GERMANY(FR)
RFE-RL
Biblis
100::WUSSR
SWITZERLAND
SWISS R INTL
Beromünster
Su:250::EU
SWISS R INTL
Beromünster
250::EU
SWISS R INTL
Beromünster
250:ARABIC:EU
SWISS R INTL
Beromünster
Su/Tu/W/F:250::EU
SWISS R INTL
Beromünster
M/Th/Sa:250:ESPERANTO:EU
3986
INDONESIA
RRI
Díli-T
INACTIVE?
3986.5
INDONESIA
RRI
Manokwari-I
1:DS
3990
CHINA(PR)
CPBS
50:DS-MINOR'Y
GERMANY(FR)
RFE-RL
Biblis
100::EEU
RFE-RL
Biblis
100::WUSSR
(con'd)
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
ENGLISH
FRENCH/FRANÇAIS
GERMAN/DEUTSCH
ITALIAN/ITALIANO
JAPANESE/日本語
PORTUGUESE/PORTUGUÊS
SPANISH/ESPAÑOL
MULTILINGUAL
OTHER
JAMMING
FADE-IN
FADE-OUT

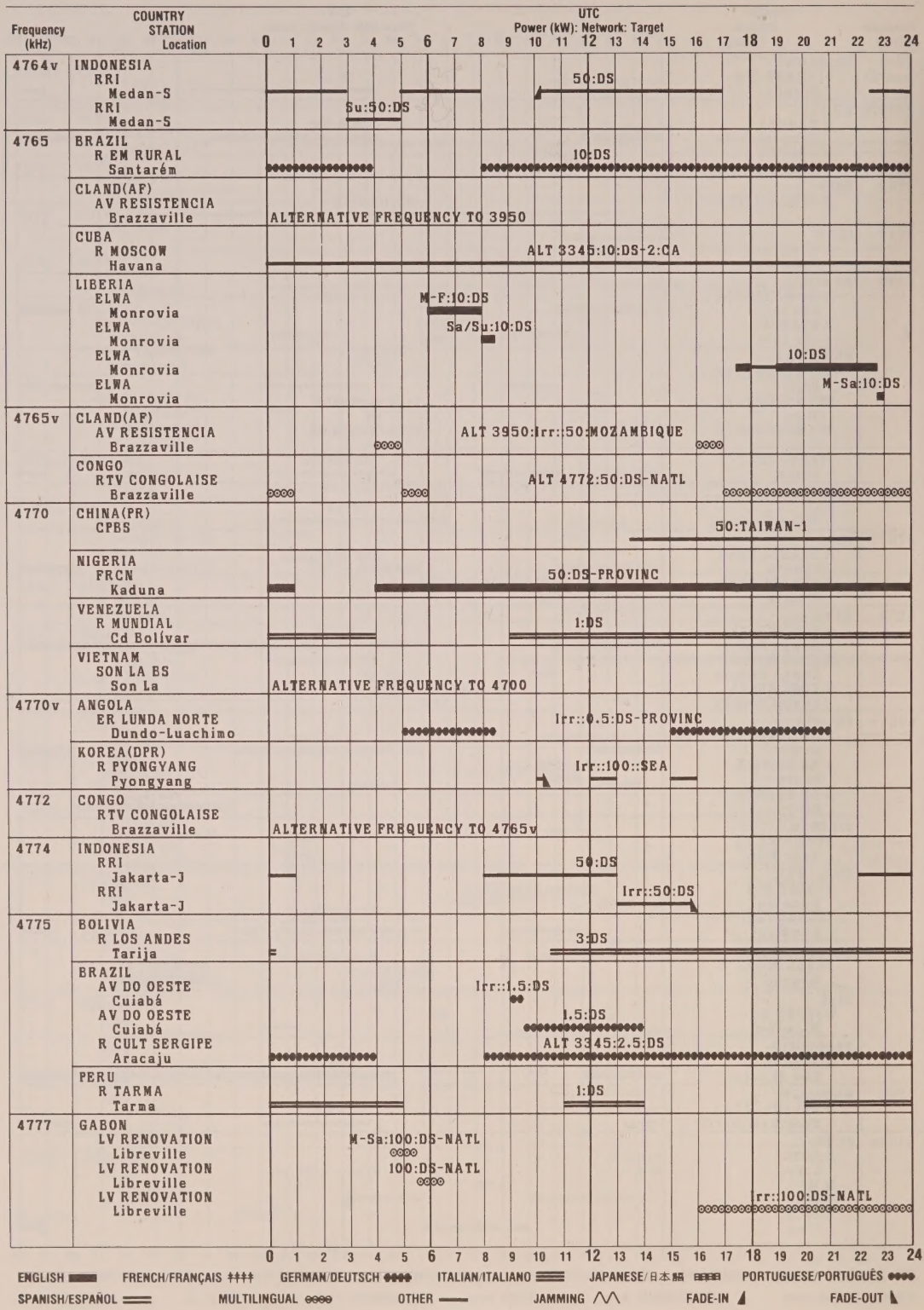

Frequency (kHz)
COUNTRY STATION Location
UTC
Power (kW): Network: Target
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
3990 (con'd)
LIBERIA VOA Monrovia
50::WAF
3995
GERMANY(PR) DEUTSCHE WELLE Jülich
100::AM
GREAT BRITAIN BBC
100::WEU
INDONESIA RRI Pontianak-K
10:DS
RRI Pontianak-K
Su:10:DS
RRI Pontianak-K
M-Sa:10:DS
ITALY RAI Rome
50::EU
4000
CAMEROON R BAFOUSSAM Bafoussam
20:DS-PROVINC
R BAFOUSSAM Bafoussam
Irr:Su:20:DS-PROVINC
INDONESIA RRI Kendari-C
5:DS
4003
INDONESIA RRI Padang-S
10:DS
4010
CHINA(PR) CPBS
50:DS-MINOR'Y
USSR KIRGHIZ R Frunze
50:LOCAL DS-1
4020
CHINA(PR) R BEIJING
50/120::EAS
R BEIJING
50/120::SEA
R BEIJING
50/120::AF
4035
CHINA(PR) CPBS Lhasa
50:DS-MINOR'Y
R BEIJING Lhasa
50::SAS
XIZANG PBS Lhasa
50:DS
4040
USSR ARMENIAN R Yerevan
LOCAL DS-1
KAZAKH R Semipalatinsk
DS
R MOSCOW Vladivostok
50:DS-2
4045
CHINA(PR) PLA Fuzhou
10:TAIWAN-1
4050
USSR KIRGHIZ Frunze
50:LOCAL DS-1
4053
INDONESIA RPDKT2 Ciamics-J
Irr::0.25:DS
4055
USSR R MOSCOW Kalinin
50:DS-3
4080
MONGOLIA R ULAANBAATAR Ulaanbaatar
50:DS
4087
INDONESIA RPKDT2 Blitar-J
0.5:DS
ENGLISH
FRENCH/FRANÇAIS
GERMAN/DEUTSCH
ITALIAN/ITALIANO
JAPANESE/日本語
PORTUGUESE/PORTUGUÊS
SPANISH/ESPAÑOL
MULTILINGUAL
OTHER
JAMMING
FADE-IN
FADE-OUT

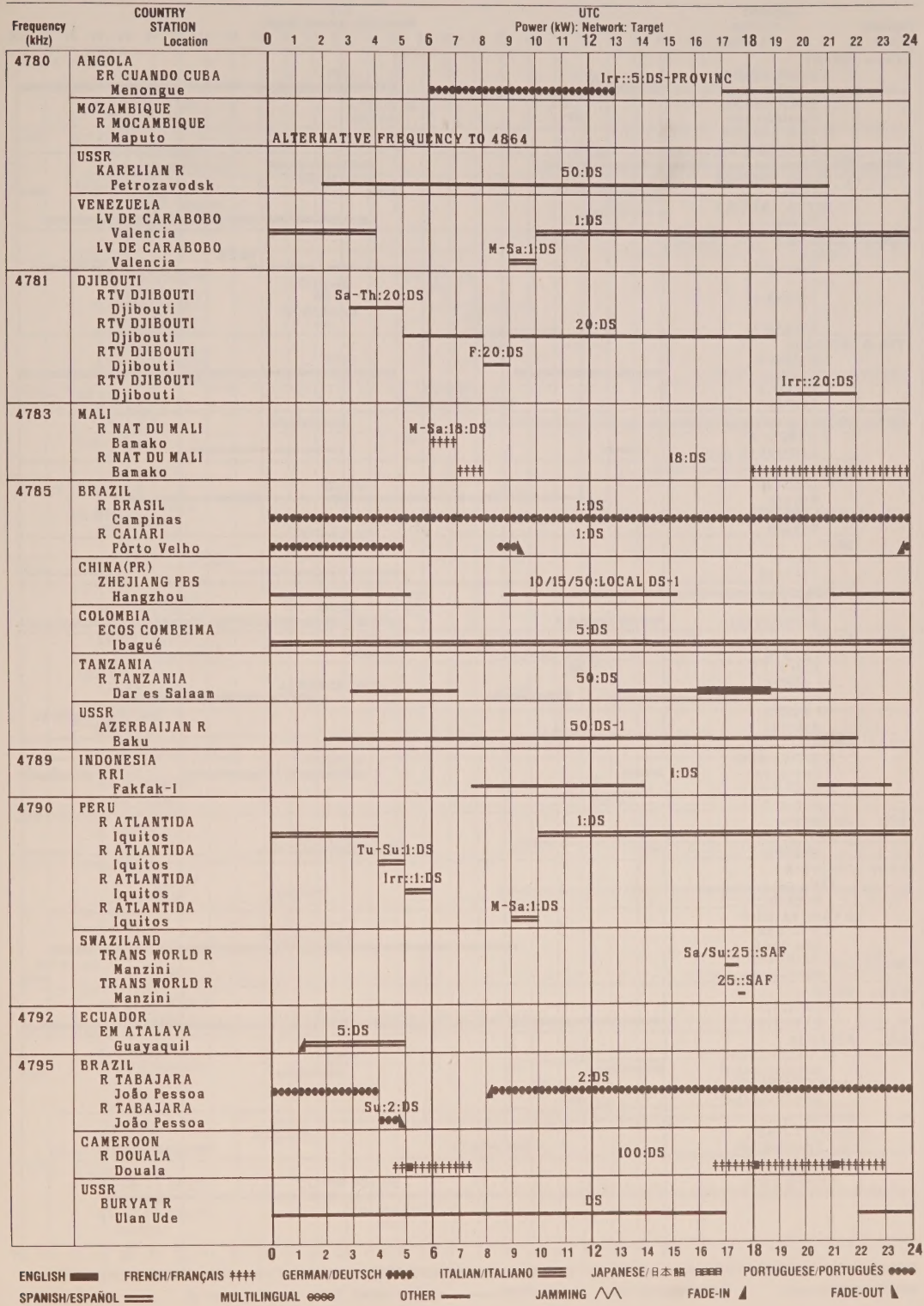

Frequency (kHz)
COUNTRY STATION Location
UTC
Power (kW): Network: Target
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
4093v BOLIVIA R COMARAPA Comarapa
0.5:DS
4095v BOLOVIA ONDAS AZUAYAS Concepción
'R & NOV'
4120v CLAND(AS) REUNIFICATION Haeju, N Korea
100:S KOREAN
4130 CHINA(PR) PLA Fuzhou
10:TAIWAN-2
4164 INDONESIA RPDT2 Nganjuk-J
Irr::0.3:DS
4190 CHINA(PR) CPBS
50:DS-MINOR'Y
CPBS
50:DS-MINOR'Y
4200 CHINA(PR) R BEIJING
50::SEA
R BEIJING
50
4213v VIETNAM LAM DONG BS Lam Dong
DS
LAM DONG BS Lam Dong
Su-F::DS
LAM DONG BS Lam Dong
Tu-F::DS
LAM DONG BS Lam Dong
Tu/F::DS
4220 CHINA(PR) XINJIANG PBS Urumqi
15/50:DS
4240v PARAGUAY LV MISIONES San Juan
SPR:3X14|3KHZ
4250 CHINA(PR) CPBS Xi'an
50:DS-2
4255v PERU R EL SOL ANDES Sta Cruz
DS
4271v ECUADOR R GONZANAMA Gonzanama
DS
4273v KOREA(DPR) CHAGONG BS Kanggye
DS
4285 LAOS VIENG XAY BS Vieng Xay
DS
4300 PERU R MODERNA Celendín
0.25:DS
4310 USSR KAZAKH R Chimkent
DS
4330 CHINA(PR) PLA Fuzhou
10:TAIWAN-1
4380 CHINA(PR) PLA Fuzhou
10:TAIWAN-2
4382 ECUADOR UNIDENTIFIED
DS
4390v INDONESIA RPDK KARO Kabanjahe-S
0.2:REPORTED
RPDK KARO Kabanjahe-S
0.2:DS
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
ENGLISH FRENCH/FRANÇAIS GERMAN/DEUTSCH ITALIAN/ITALIANO JAPANESE/日本語 PORTUGUESE/PORTUGUÊS
SPANISH/ESPAÑOL MULTILINGUAL OTHER JAMMING FADE-IN FADE-OUT

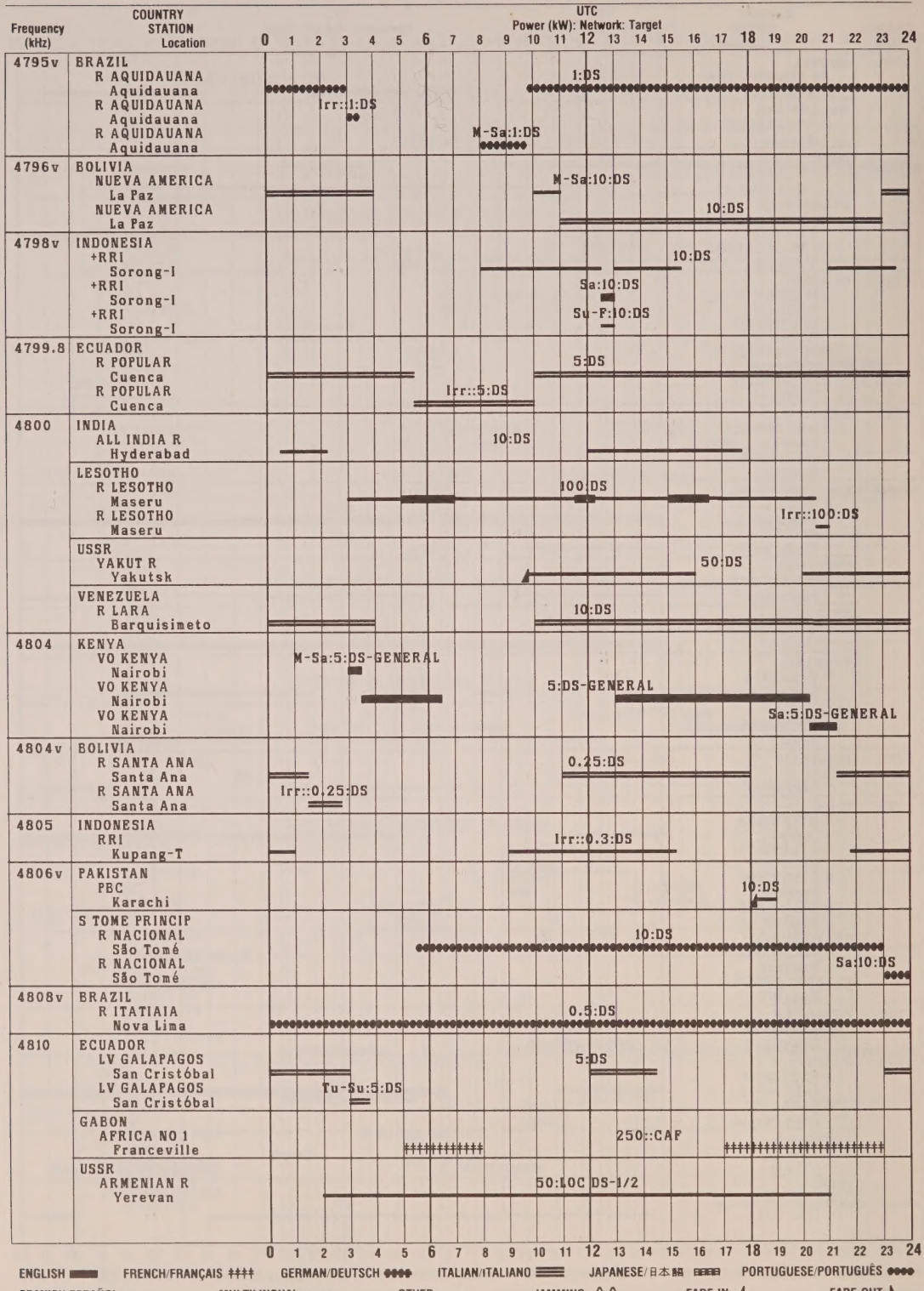

Frequency (kHz)
COUNTRY
STATION
Location
UTC
Power (kW): Network: Target
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
4420
USSR
KAZAKH R
Kokchetav
DS
4420.4
BOLIVIA
R EM REYES
Reyes
0.35:DS
R EM REYES
Reyes
Irr::0.35:DS
4450
AFGHANISTAN
R AFGHANISTAN
DS-1/ES:AS/ME
R AFGHANISTAN
AS/ME
4460
CHINA(PR)
CPBS
Xi'an
50:DS-1
PERU
R SAN JUAN
La Libertad
DS
4465
GERMANY(FR)
RFE-RL
Holzkirchen
Irr::10:ISU:(FEEDER)
RFE-RL
Holzkirchen
Irr::10:ISL:(FEEDER):WEU
4473v
BOLIVIA
R MOVIMA
Santa Ana
0.25:DS
R MOVIMA
Santa Ana
Irr::0.25:DS
4475
GERMANY(FR)
RFE-RL
Holzkirchen
Irr::10:ISL:(FEEDER):WEU
RFE-RL
Holzkirchen
Irr::10:ISU:(FEEDER):WEU
4485
USSR
BASHKIR R
Ufa
50:DS
KAMCHATKA OB
Petropavlovsk
LOCAL DS-1
PAC OCEAN R
Petropavlovsk
MARINERS:AS/PAC
4500
CHINA(PR)
R BEIJING
Urumqi
50::USSR
XINJIANG PBS
Urumqi
50:DS
XINJIANG PBS
Urumqi
M-Sa:50:DS
4505
GERMANY(FR)
RFE-RL
Holzkirchen
Irr::10:ISU:(FEEDER):WEU
RFE-RL
Holzkirchen
Irr::10:ISL:(FEEDER):WEU
4525
CHINA(PR)
NEI MONGGOL PB
Abagnar Qi
10/15/50:DS
4536
BOLIVIA
R DIFUSORA
Puerto Suárez
Irr:Su/M::SPR:3X1512KHZ
R DIFUSORA
Puerto Suárez
M-Sa::SPR:3X1512KHZ
4545
USSR
KAZAKH R
Alma Ata
50:LOCAL DS-1
4557
KOREA(DPR)
UNIFICATION
Haeju, N Korea
100:S KOREAN
4565
GERMANY(FR)
RFE-RL
Holzkirchen
Irr::10:ISL:(FEEDER):WEU
RFE-RL
Holzkirchen
Irr::10:ISU:(FEEDER):WEU
4607.5
INDONESIA
RRI
Serui-I
DS
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
ENGLISH
FRENCH/FRANÇAIS
GERMAN/DEUTSCH
ITALIAN/ITALIANO
JAPANESE/日本語
PORTUGUESE/PORTUGUÊS
SPANISH/ESPAÑOL
MULTILINGUAL
OTHER
JAMMING
FADE-IN
FADE-OUT

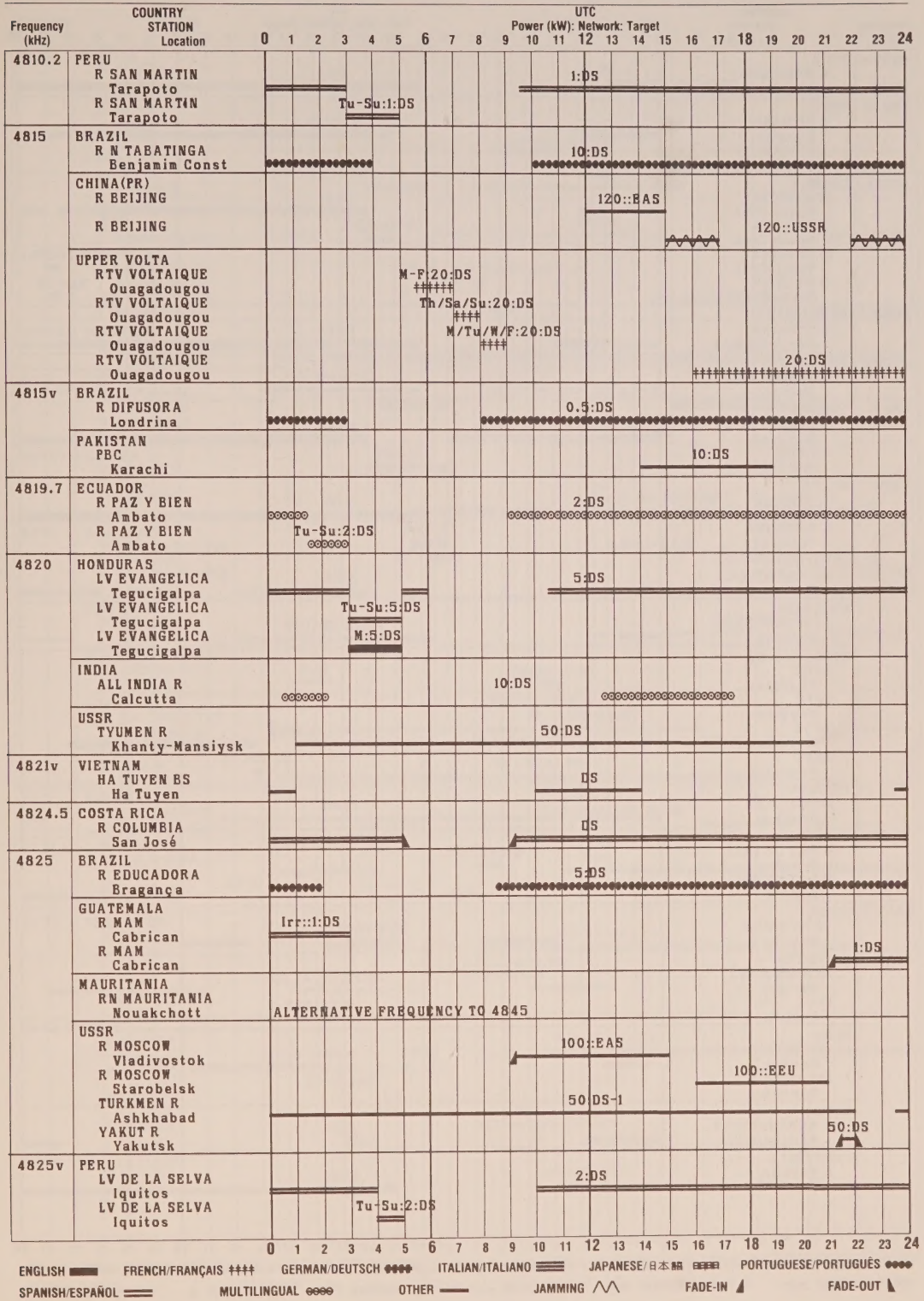

Frequency (kHz)
COUNTRY STATION Location
UTC
Power (kW): Network: Target
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
4608v
BHUTAN
R NYAB
Thimpu
ALT 4692:0.1:DS
4610
USSR
KHABAROVSK R
Khabarovsk
50:LOCAL DS+2
4615
USSR
KAZAKH R
Pavalodar
DS
4620
CHINA(PR)
R BEIJING
50/120::EAS
4635
USSR
TAJIK R
Dushanbe
50:LOCAL DS+1
4656v
ECUADOR
CRE-TROPICANA
Guayaquil
CRE-TROPICANA
Guayaquil
10:DS
Tu-Su:10:DS
4670v
LAOS
HOUA PHAN BS
Houa Phan
HOUA PHAN BS
Houa Phan
1:DS
Irr:Su:1:DS
4679.5
ECUADOR
R N ESPEJO
Quito
5:DS
4682v
BOLIVIA
R PAITITI
Guayaramerin
R PAITITI
Guayaramerin
0.75:DS
Irr::0.75:DS
4692
BHUTAN
R NYAB
Thimpu
ALT 4608:W/F:0.1:DS
4697
BOLIVIA
R RIBERALTA
Riberalta
R RIBERALTA
Riberalta
3:DS
Irr::3:DS
4699
INDONESIA
RKIP
Surabaya-J
2:DS
4700v
VIETNAM
SON LA BS
Son La
ALT 4770:DS
4701v
VIETNAM
GIA LAI BS
Gia Lai-Kon T
GIA LAI BS
Gia Lai-Kon T
DS
REPORTED
4710
PAKISTAN
PBC
Quetta
ALT 4880:10:DS
4718v
BOLIVIA
R ABAROA
Riberalta
R ABAROA
Riberalta
0.5:DS
Irr::0.5:DS
4719
INDONESIA
RRI
Ujung Pandang
RRI
Ujung Pandang
50:DS
Sa:50:DS
4725
BURMA
BBS
Rangoon
BBS
Rangoon
50:DS-MINOR'Y
Sa:50:DS-MINOR'Y
4735
(con'd)
CHINA(PR)
CPBS
Urumqi
R BEIJING
Urumqi
50:DS-MINOR'Y
50::USSR
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
ENGLISH
FRENCH/FRANÇAIS
GERMAN/DEUTSCH
ITALIAN/ITALIANO
JAPANESE/日本語
PORTUGUESE/PORTUGUÊS
SPANISH/ESPAÑOL
MULTILINGUAL
OTHER
JAMMING
FADE-IN
FADE-OUT

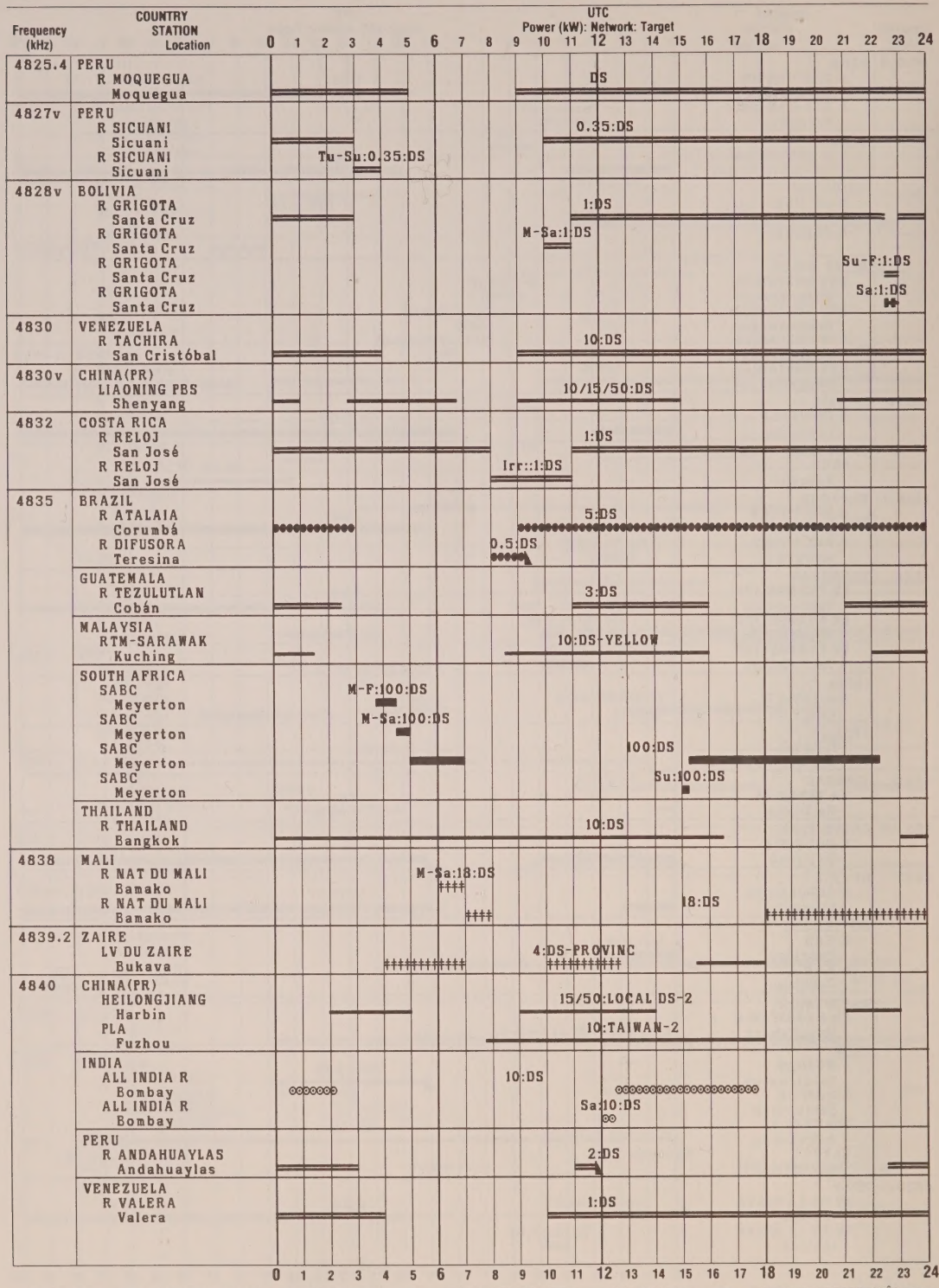

Frequency (kHz)
COUNTRY STATION Location
UTC
Power (kW): Network: Target
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
4735 (con'd)
CHINA(PR)
XINJIANG PBS
Urumqi
50:DS
4739.6
BOLIVIA
R MAMORE
Guayaramerin
0.5:DS
R MAMORE
Guayaramerin
Irr::0.5:DS
4740
USSR
R AFGHANISTAN
DS+1:AS/ME
4747
PERU
R HUANTA
Huanta
ALTERNATIVE FREQUENCY TO 4754
4750
BRAZIL
R DO MARANHAO
São Luiz
5:DS
R HUANTA
São Luís
2:DS
CHINA(PR)
NEI MONGGOL PB
Ulgai
15:DS
NEI MONGGOL PB
Ulgai
Tu/F:15::EUSSR
NEI MONGGOL PB
Ulgai
W/Th/S+M:15:DS
XIZANG PBS
Lhasa
15/50:DS
4753
INDONESIA
RRI
Ujung Pandang
20:DS
4754v
PERU
R HUANTA 2000
Huanta
ALT 4747:1:DS
R HUANTA 2000
Huanta
ALT 4747:Irr::1:DS
4755
BRAZIL
R EDUC RURAL
Campo Grande
10:DS
R EDUC RURAL
Campo Grande
Tu-Su:10:DS
R EDUC RURAL
Campo Grande
M-Sa:10:DS
4756v
BOLIVIA
R EM BOLIVIA
Oruro
5:DS
R EM BOLIVIA
Oruro
Irr::5:DS
R EM BOLIVIA
Oruro
Su:5:DS
VIETNAM
NGHE TINH BS
Nghe Tinh
DS
4760
CHINA(PR)
YUNNAN PBS
Kunming
Su:50:LOCAL DS-1
YUNNAN PBS
Kunming
50:LOCAL DS-1
SWAZILAND
TRANS WORLD R
Manzini
25::SAF/CAF
USSR
KAZAKH R
Dzhambul
DS
VENEZUELA
R FRONTERA
San Antonio
1:DS
4762
MONGOLIA
R ULAANBAATAR
Ulaanbaatar
50:DS
4763v
PERU
R INCA
Lima
Su:1:DS
R INCA
Lima
1:DS
R INCA
Lima
M+Sa:1:DS
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
ENGLISH
FRENCH/FRANÇAIS
GERMAN/DEUTSCH
ITALIAN/ITALIANO
JAPANESE/日本語
PORTUGUESE/PORTUGUÊS
SPANISH/ESPAÑOL
MULTILINGUAL
OTHER
JAMMING
FADE-IN
FADE-OUT

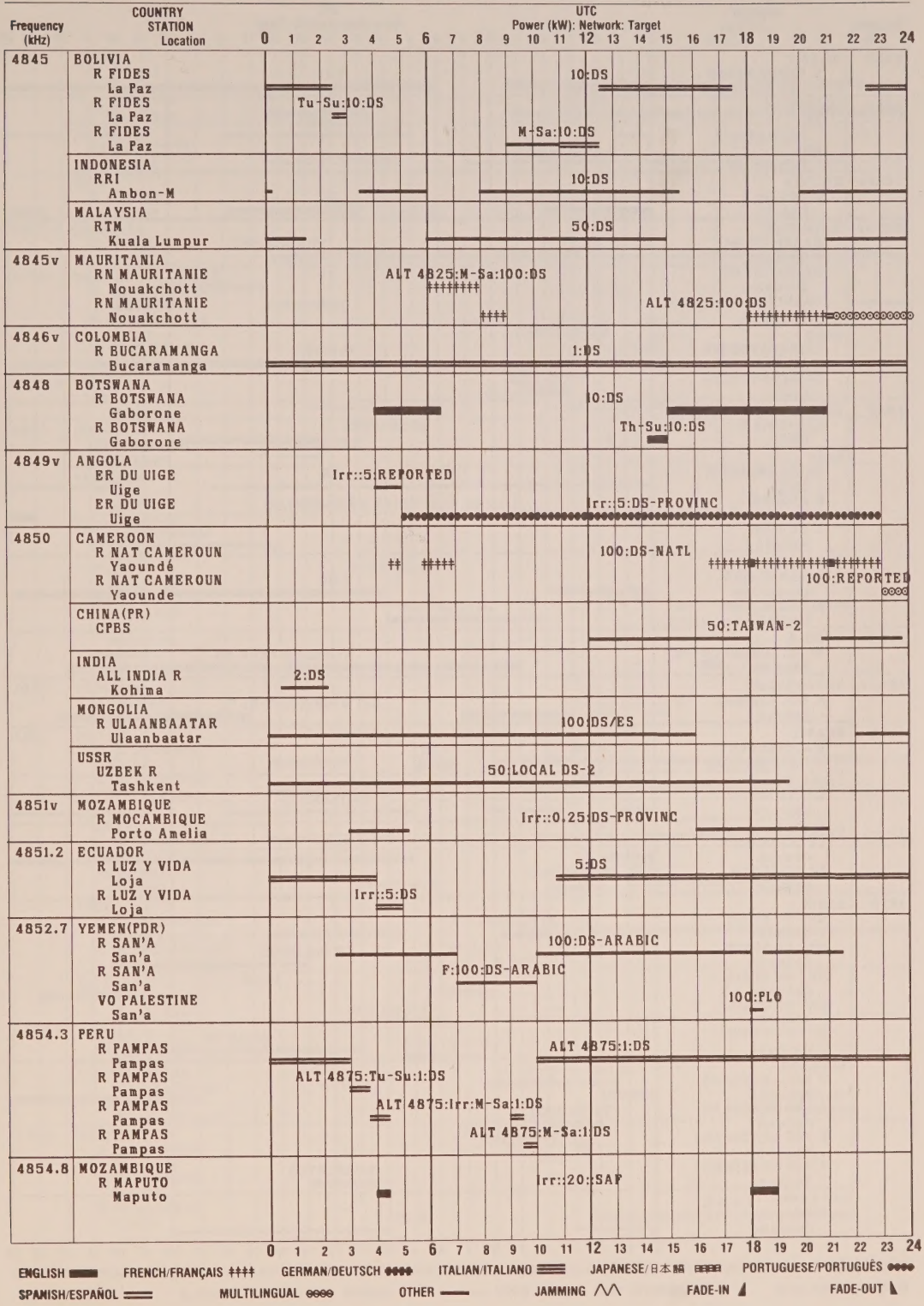

Frequency (kHz)
COUNTRY
STATION
Location
UTC
Power (kW): Network: Target
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
4764v
INDONESIA
RRI
Medan-S
50:DS
RRI
Medan-S
Su:50:DS
4765
BRAZIL
R EM RURAL
Santarém
10:DS
CLAND(AF)
AV RESISTENCIA
Brazzaville
ALTERNATIVE FREQUENCY TO 3950
CUBA
R MOSCOW
Havana
ALT 3345:10:DS-2:CA
LIBERIA
ELWA
Monrovia
M-F:10:DS
ELWA
Monrovia
Sa/Su:10:DS
ELWA
Monrovia
10:DS
ELWA
Monrovia
M-Sa:10:DS
4765v
CLAND(AF)
AV RESISTENCIA
Brazzaville
ALT 3950:Irr::50:MOZAMBIQUE
CONGO
RTV CONGOLAISE
Brazzaville
ALT 4772:50:DS-NATL
4770
CHINA(PR)
CPBS
50:TAIWAN-1
NIGERIA
FRCN
Kaduna
50:DS-PROVINC
VENEZUELA
R MUNDIAL
Cd Bolivar
1:DS
VIETNAM
SON LA BS
Son La
ALTERNATIVE FREQUENCY TO 4700
4770v
ANGOLA
ER LUNDA NORTE
Dundo-Luachimo
Irr::0.5:DS-PROVINC
KOREA(DPR)
R PYONGYANG
Pyongyang
Irr::100::SEA
4772
CONGO
RTV CONGOLAISE
Brazzaville
ALTERNATIVE FREQUENCY TO 4765v
4774
INDONESIA
RRI
Jakarta-J
50:DS
RRI
Jakarta-J
Irr::50:DS
4775
BOLIVIA
R LOS ANDES
Tarija
3:DS
BRAZIL
AV DO OESTE
Cuiabá
Irr::1.5:DS
AV DO OESTE
Cuiabá
1.5:DS
R CULT SERGIPE
Aracaju
ALT 3345:2.5:DS
PERU
R TARMA
Tarma
1:DS
4777
GABON
LV RENOVATION
Libreville
M-Sa:100:DS-NATL
LV RENOVATION
Libreville
100:DS-NATL
LV RENOVATION
Libreville
Irr::100:DS-NATL
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
ENGLISH
FRENCH/FRANÇAIS
GERMAN/DEUTSCH
ITALIAN/ITALIANO
JAPANESE/日本語
PORTUGUESE/PORTUGUÊS
SPANISH/ESPAÑOL
MULTILINGUAL
OTHER
JAMMING
FADE-IN
FADE-OUT

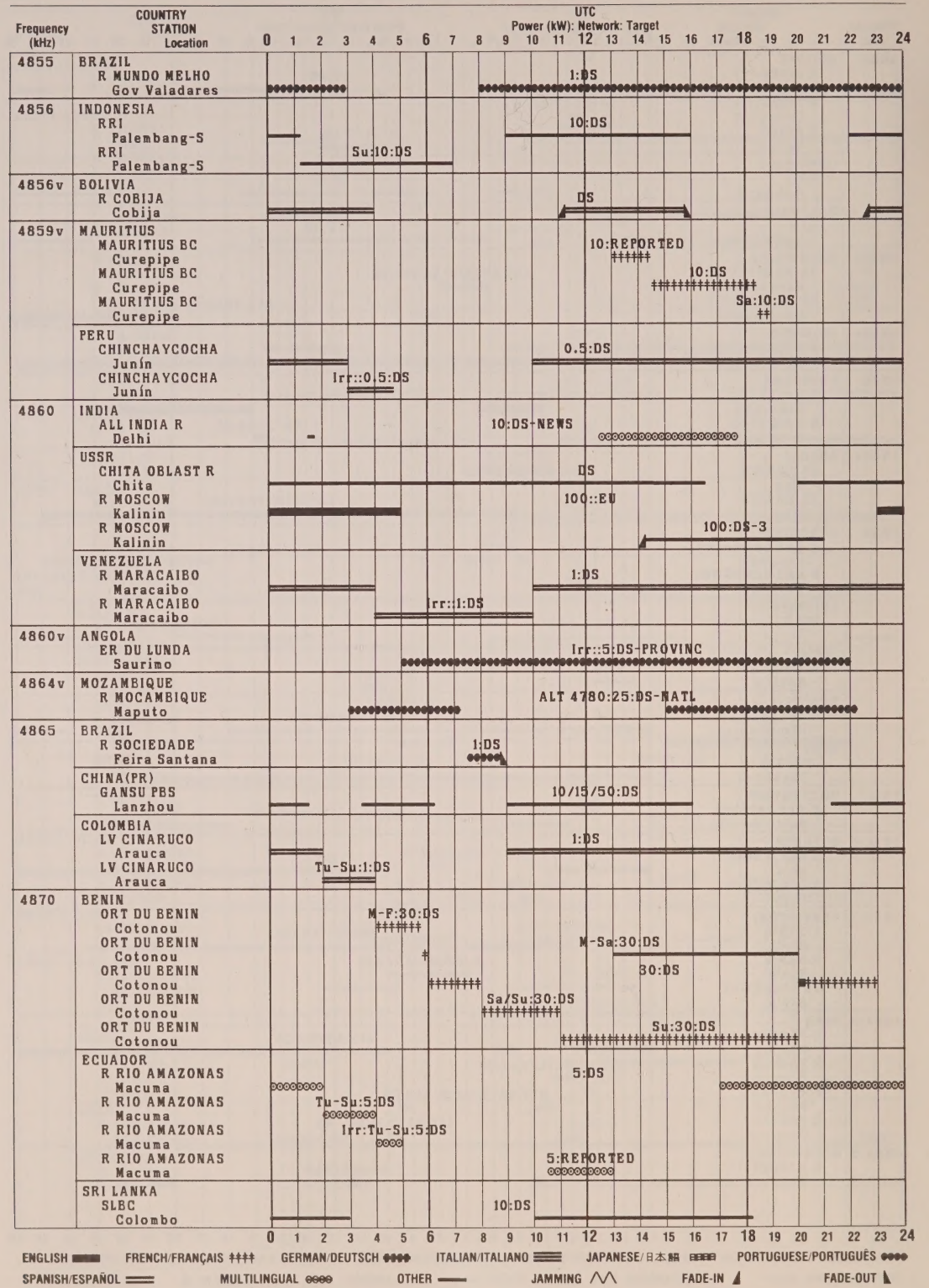

Frequency (kHz)
COUNTRY
STATION
Location
UTC
Power (kW): Network: Target
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
4780
ANGOLA
ER CUANDO CUBA
Menongue
Irr::5:DS-PROVINC
MOZAMBIQUE
R MOCAMBIQUE
Maputo
ALTERNATIVE FREQUENCY TO 4864
USSR
KARELIAN R
Petrozavodsk
50:DS
VENEZUELA
LV DE CARABOBO
Valencia
1:DS
LV DE CARABOBO
Valencia
M-Sa:1:DS
4781
DJIBOUTI
RTV DJIBOUTI
Djibouti
Sa-Th:20:DS
RTV DJIBOUTI
Djibouti
20:DS
RTV DJIBOUTI
Djibouti
F:20:DS
RTV DJIBOUTI
Djibouti
Irr::20:DS
4783
MALI
R NAT DU MALI
Bamako
M-Sa:18:DS
R NAT DU MALI
Bamako
18:DS
4785
BRAZIL
R BRASIL
Campinas
1:DS
R CAIARI
Pôrto Velho
1:DS
CHINA(PR)
ZHEJIANG PBS
Hangzhou
10/15/50:LOCAL DS+1
COLOMBIA
ECOS COMBEIMA
Ibagué
5:DS
TANZANIA
R TANZANIA
Dar es Salaam
50:DS
USSR
AZERBAIJAN R
Baku
50 DS-1
4789
INDONESIA
RRI
Fakfak-1
1:DS
4790
PERU
R ATLANTIDA
Iquitos
1:DS
R ATLANTIDA
Iquitos
Tu-Su:1:DS
R ATLANTIDA
Iquitos
Irr::1:DS
R ATLANTIDA
Iquitos
M-Sa:1:DS
SWAZILAND
TRANS WORLD R
Manzini
Sa/Su:25::SAF
TRANS WORLD R
Manzini
25::SAF
4792
ECUADOR
EM ATALAYA
Guayaquil
5:DS
4795
BRAZIL
R TABAJARA
João Pessoa
2:DS
R TABAJARA
João Pessoa
Su:2:DS
CAMEROON
R DOUALA
Douala
100:DS
USSR
BURYAT R
Ulan Ude
DS
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
ENGLISH
FRENCH/FRANÇAIS
GERMAN/DEUTSCH
ITALIAN/ITALIANO
JAPANESE/日本語
PORTUGUESE/PORTUGUÊS
SPANISH/ESPAÑOL
MULTILINGUAL
OTHER
JAMMING
FADE-IN
FADE-OUT

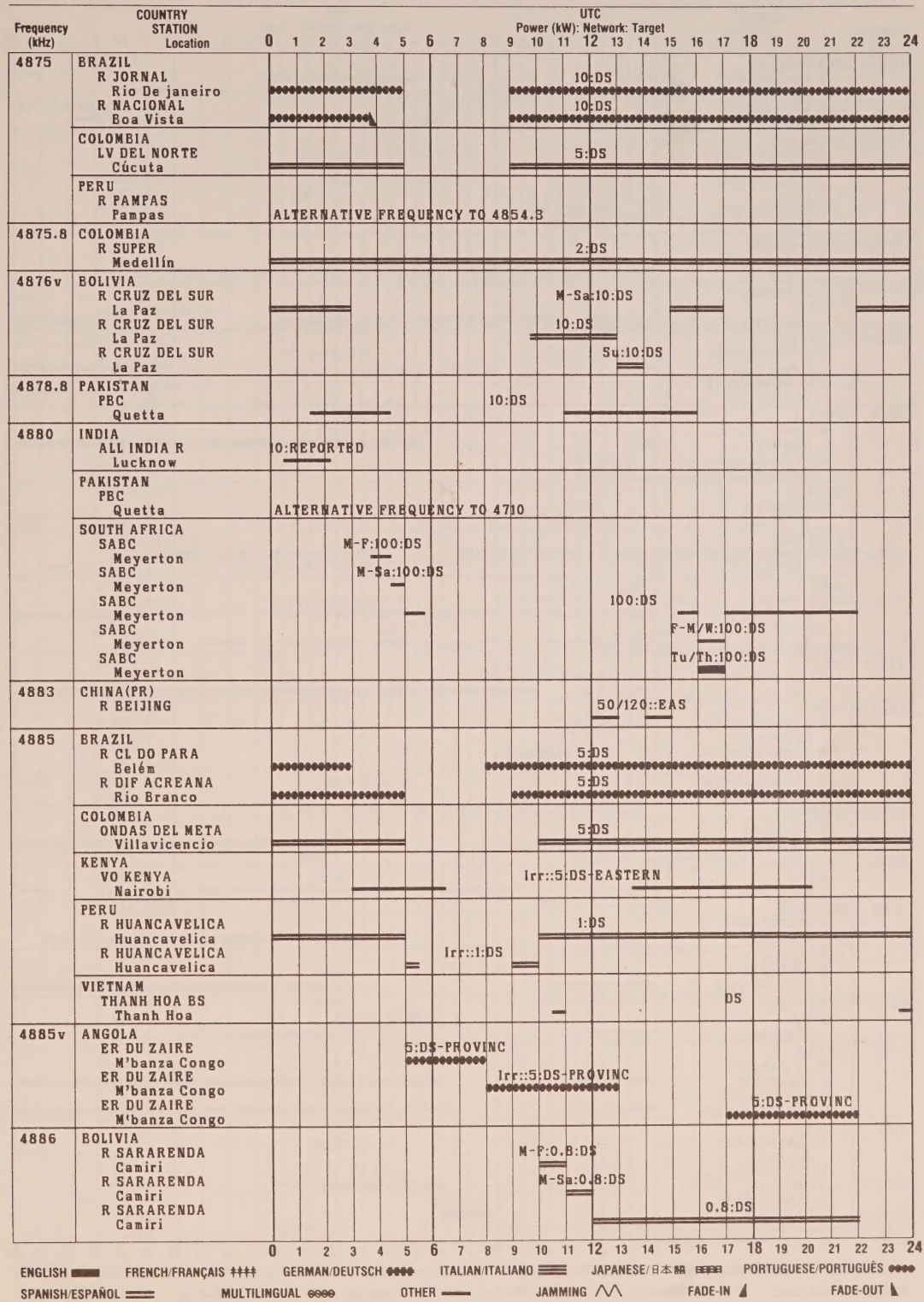

Frequency (kHz)
COUNTRY STATION Location
UTC
Power (kW): Network: Target
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
4795v
BRAZIL
R AQUIDAUANA
Aquidauana
1:DS
Irr::1:DS
M-Sa:1:DS
4796v
BOLIVIA
NUEVA AMERICA
La Paz
M-Sa:10:DS
10:DS
4798v
INDONESIA
+RRI
Sorong-I
10:DS
Sa:10:DS
Su-F:10:DS
4799.8
ECUADOR
R POPULAR
Cuenca
5:DS
Irr::5:DS
4800
INDIA
ALL INDIA R
Hyderabad
10:DS
LESOTHO
R LESOTHO
Maseru
100:DS
Irr::100:DS
USSR
YAKUT R
Yakutsk
50:DS
VENEZUELA
R LARA
Barquisimeto
10:DS
4804
KENYA
VO KENYA
Nairobi
M-Sa:5:DS-GENERAL
5:DS-GENERAL
Sa:5:DS-GENERAL
4804v
BOLIVIA
R SANTA ANA
Santa Ana
0.25:DS
Irr::0.25:DS
4805
INDONESIA
RRI
Kupang-T
Irr::0.3:DS
4806v
PAKISTAN
PBC
Karachi
10:DS
S TOME PRINCIP
R NACIONAL
São Tomé
10:DS
Sa:10:DS
4808v
BRAZIL
R ITATIAIA
Nova Lima
0.5:DS
4810
ECUADOR
LV GALAPAGOS
San Cristóbal
5:DS
Tu-Su:5:DS
GABON
AFRICA NO 1
Franceville
250::CAF
USSR
ARMENIAN R
Yerevan
50:LOC DS-1/2
ENGLISH
FRENCH/FRANÇAIS
GERMAN/DEUTSCH
ITALIAN/ITALIANO
JAPANESE/日本語
PORTUGUESE/PORTUGUÊS
SPANISH/ESPAÑOL
MULTILINGUAL
OTHER
JAMMING
FADE-IN
FADE-OUT

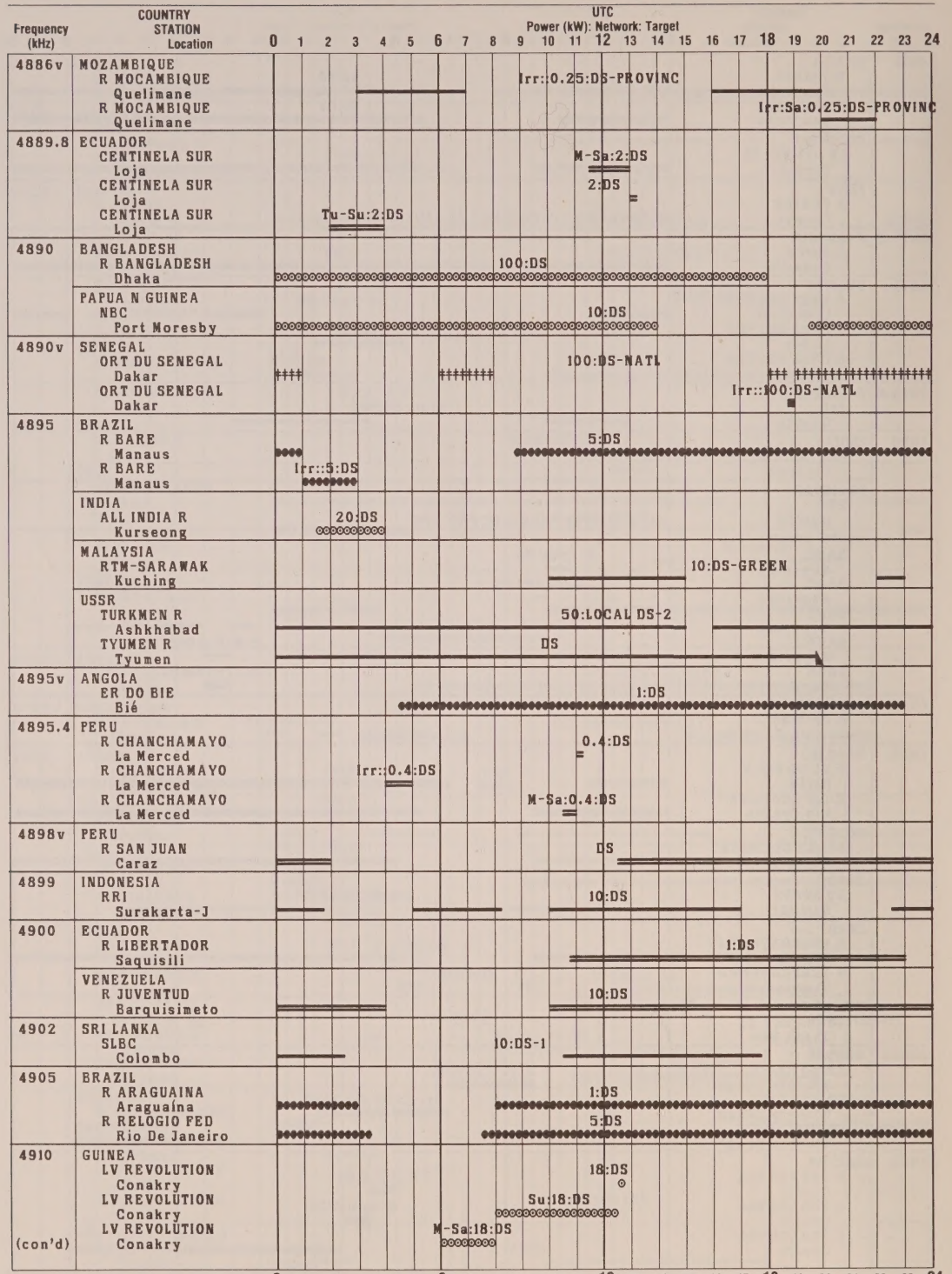

Frequency (kHz)
COUNTRY STATION Location
UTC
Power (kW): Network: Target
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
4810.2
PERU
R SAN MARTIN Tarapoto
1:DS
R SAN MARTIN Tarapoto
Tu-Su:1:DS
4815
BRAZIL
R N TABATINGA Benjamim Const
10:DS
CHINA(PR)
R BEIJING
120::EAS
R BEIJING
120::USSR
UPPER VOLTA
RTV VOLTAIQUE Ouagadougou
M-F:20:DS
RTV VOLTAIQUE Ouagadougou
Th/Sa/Su:20:DS
RTV VOLTAIQUE Ouagadougou
M/Tu/W/F:20:DS
RTV VOLTAIQUE Ouagadougou
20:DS
4815v
BRAZIL
R DIFUSORA Londrina
0.5:DS
PAKISTAN
PBC Karachi
10:DS
4819.7
ECUADOR
R PAZ Y BIEN Ambato
2:DS
R PAZ Y BIEN Ambato
Tu-Su:2:DS
4820
HONDURAS
LV EVANGELICA Tegucigalpa
5:DS
LV EVANGELICA Tegucigalpa
Tu-Su:5:DS
LV EVANGELICA Tegucigalpa
M:5:DS
INDIA
ALL INDIA R Calcutta
10:DS
USSR
TYUMEN R Khanty-Mansiysk
50:DS
4821v
VIETNAM
HA TUYEN BS Ha Tuyen
DS
4824.5
COSTA RICA
R COLUMBIA San José
DS
4825
BRAZIL
R EDUCADORA Bragança
5:DS
GUATEMALA
R MAM Cabrican
Irr::1:DS
R MAM Cabrican
1:DS
MAURITANIA
RN MAURITANIA Nouakchott
ALTERNATIVE FREQUENCY TO 4845
USSR
R MOSCOW Vladivostok
100::EAS
R MOSCOW Starobelsk
100::EEU
TURKMEN R Ashkhabad
50:DS-1
YAKUT R Yakutsk
50:DS
4825v
PERU
LV DE LA SELVA Iquitos
2:DS
LV DE LA SELVA Iquitos
Tu-Su:2:DS
ENGLISH
FRENCH/FRANÇAIS
GERMAN/DEUTSCH
ITALIAN/ITALIANO
JAPANESE/日本語
PORTUGUESE/PORTUGUÊS
SPANISH/ESPAÑOL
MULTILINGUAL
OTHER
JAMMING
FADE-IN
FADE-OUT

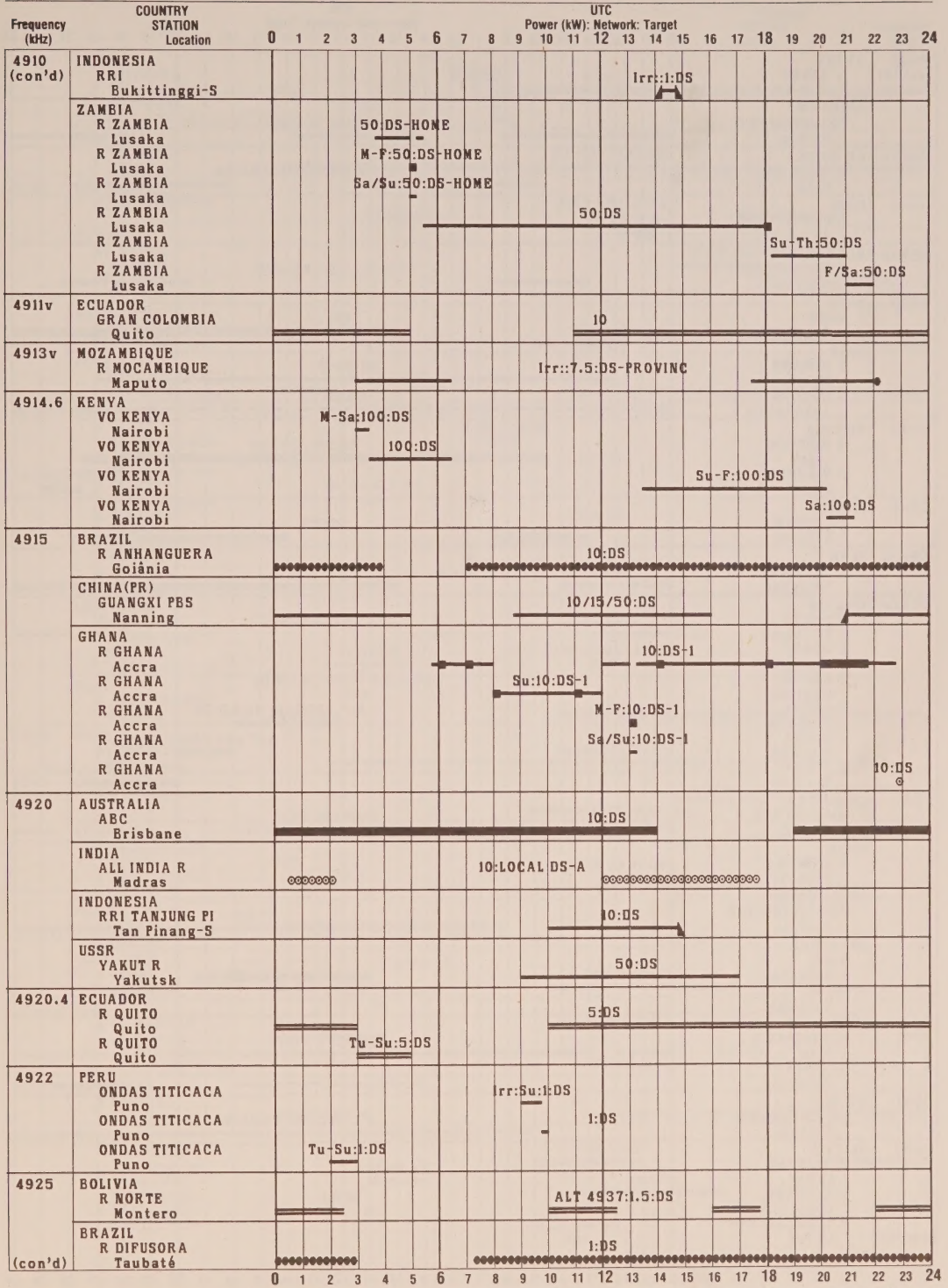

Frequency (kHz)
COUNTRY
STATION
Location
UTC
Power (kW): Network: Target
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
4825.4
PERU
R MOQUEGUA
Moquegua
DS
4827v
PERU
R SICUANI
Sicuani
0.35:DS
R SICUANI
Sicuani
Tu-Su:0.35:DS
4828v
BOLIVIA
R GRIGOTA
Santa Cruz
1:DS
R GRIGOTA
Santa Cruz
M-Sa:1:DS
R GRIGOTA
Santa Cruz
Su-F:1:DS
R GRIGOTA
Santa Cruz
Sa:1:DS
4830
VENEZUELA
R TACHIRA
San Cristóbal
10:DS
4830v
CHINA(PR)
LIAONING PBS
Shenyang
10/15/50:DS
4832
COSTA RICA
R RELOJ
San José
1:DS
R RELOJ
San José
Irr::1:DS
4835
BRAZIL
R ATALAIA
Corumbá
5:DS
R DIFUSORA
Teresina
0.5:DS
GUATEMALA
R TEZULUTLAN
Cobán
3:DS
MALAYSIA
RTM-SARAWAK
Kuching
10:DS-YELLOW
SOUTH AFRICA
SABC
Meyerton
M-F:100:DS
SABC
Meyerton
M-Sa:100:DS
SABC
Meyerton
100:DS
SABC
Meyerton
Su:100:DS
THAILAND
R THAILAND
Bangkok
10:DS
4838
MALI
R NAT DU MALI
Bamako
M-Sa:18:DS
R NAT DU MALI
Bamako
18:DS
4839.2
ZAIRE
LV DU ZAIRE
Bukava
4:DS-PROVINC
4840
CHINA(PR)
HEILONGJIANG
Harbin
15/50:LOCAL DS-2
PLA
Fuzhou
10:TAIWAN-2
INDIA
ALL INDIA R
Bombay
10:DS
ALL INDIA R
Bombay
Sa:10:DS
PERU
R ANDAHUAYLAS
Andahuaylas
2:DS
VENEZUELA
R VALERA
Valera
1:DS
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
ENGLISH
FRENCH/FRANÇAIS
GERMAN/DEUTSCH
ITALIAN/ITALIANO
JAPANESE/日本語
PORTUGUESE/PORTUGUÊS
SPANISH/ESPAÑOL
MULTILINGUAL
OTHER
JAMMING
FADE-IN
FADE-OUT

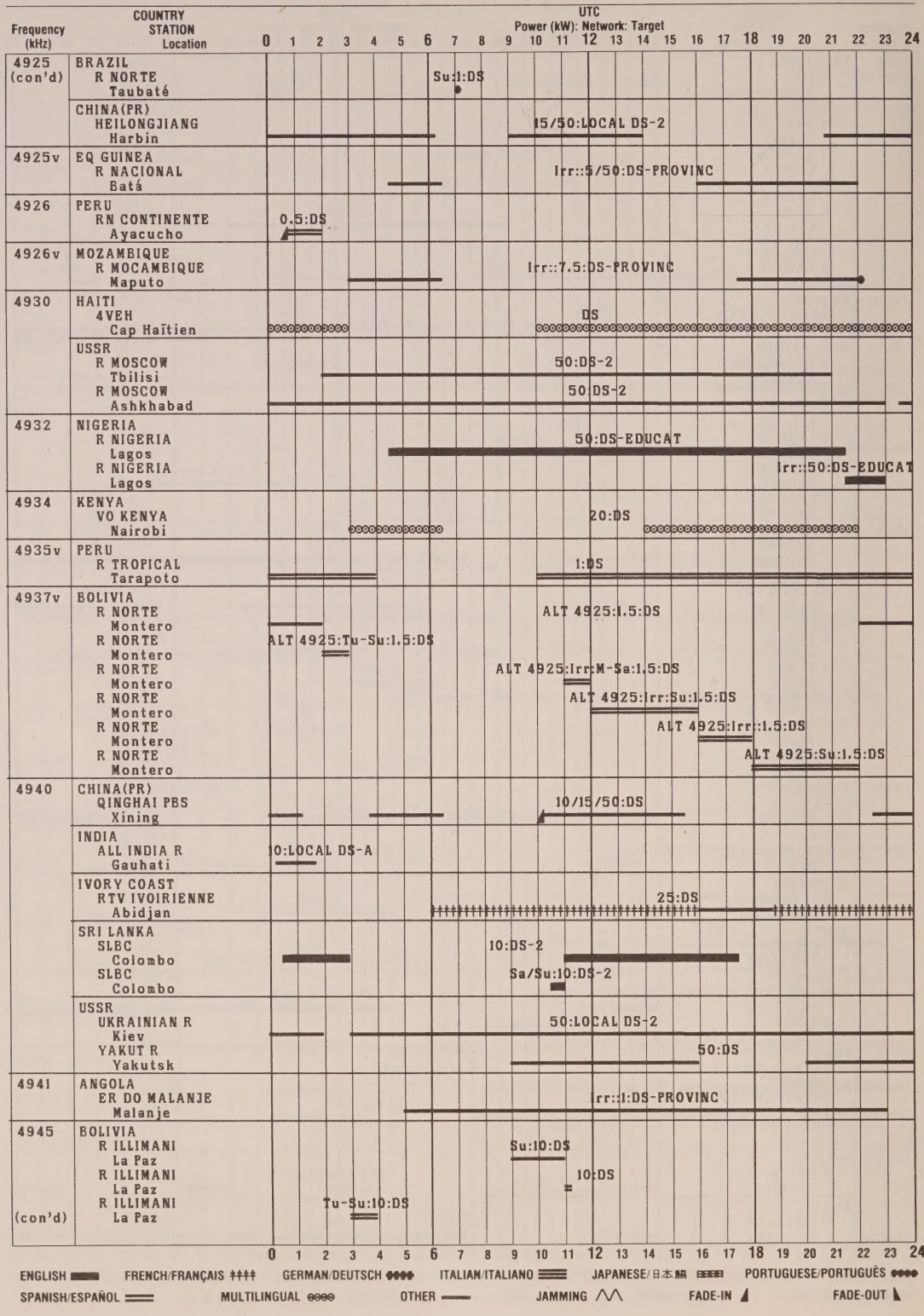

Frequency (kHz)
COUNTRY STATION Location
UTC
Power (kW): Network: Target
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
4845
BOLIVIA
R FIDES La Paz
10:DS
R FIDES La Paz
Tu-Su:10:DS
R FIDES La Paz
M-Sa:10:DS
INDONESIA
RRI Ambon-M
10:DS
MALAYSIA
RTM Kuala Lumpur
50:DS
4845v
MAURITANIA
RN MAURITANIE Nouakchott
ALT 4825:M-Sa:100:DS
RN MAURITANIE Nouakchott
ALT 4825:100:DS
4846v
COLOMBIA
R BUCARAMANGA Bucaramanga
1:DS
4848
BOTSWANA
R BOTSWANA Gaborone
10:DS
R BOTSWANA Gaborone
Th-Su:10:DS
4849v
ANGOLA
ER DU UIGE Uige
Irr::5:REPORTED
ER DU UIGE Uige
Irr::5:DS-PROVINC
4850
CAMEROON
R NAT CAMEROUN Yaoundé
100:DS-NATL
R NAT CAMEROUN Yaounde
100:REPORTED
CHINA(PR)
CPBS
50:TAIWAN-2
INDIA
ALL INDIA R Kohima
2:DS
MONGOLIA
R ULAANBAATAR Ulaanbaatar
100:DS/ES
USSR
UZBEK R Tashkent
50:LOCAL DS-2
4851v
MOZAMBIQUE
R MOCAMBIQUE Porto Amelia
Irr::0.25:DS-PROVINC
4851.2
ECUADOR
R LUZ Y VIDA Loja
5:DS
R LUZ Y VIDA Loja
Irr::5:DS
4852.7
YEMEN(PDR)
R SAN'A San'a
100:DS-ARABIC
R SAN'A San'a
F:100:DS-ARABIC
VO PALESTINE San'a
100:PLO
4854.3
PERU
R PAMPAS Pampas
ALT 4875:1:DS
R PAMPAS Pampas
ALT 4875:Tu-Su:1:DS
R PAMPAS Pampas
ALT 4875:Irr:M-Sa:1:DS
R PAMPAS Pampas
ALT 4875:M-Sa:1:DS
4854.8
MOZAMBIQUE
R MAPUTO Maputo
Irr::20::SAF
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
ENGLISH
FRENCH/FRANÇAIS
GERMAN/DEUTSCH
ITALIAN/ITALIANO
JAPANESE/日本語
PORTUGUESE/PORTUGUÊS
SPANISH/ESPAÑOL
MULTILINGUAL
OTHER
JAMMING
FADE-IN
FADE-OUT

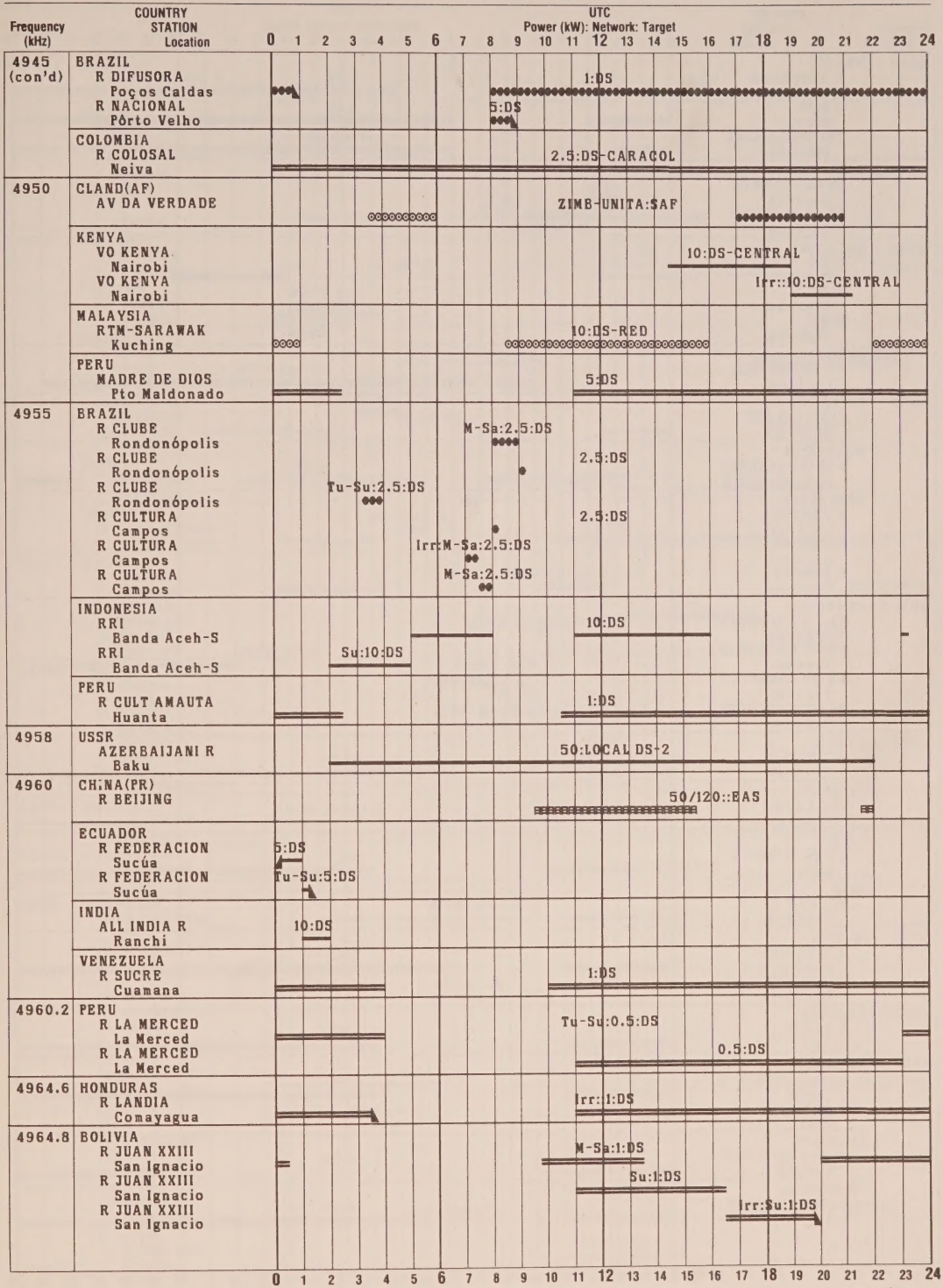

Frequency (kHz)
COUNTRY
STATION
Location
UTC
Power (kW): Network: Target
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
4855
BRAZIL
R MUNDO MELHO
Gov Valadares
1:DS
4856
INDONESIA
RRI
Palembang-S
10:DS
RRI
Palembang-S
Su:10:DS
4856v
BOLIVIA
R COBIJA
Cobija
DS
4859v
MAURITIUS
MAURITIUS BC
Curepipe
10:REPORTED
MAURITIUS BC
Curepipe
10:DS
MAURITIUS BC
Curepipe
Sa:10:DS
PERU
CHINCHAYCOCHA
Junín
0.5:DS
CHINCHAYCOCHA
Junín
Irr::0.5:DS
4860
INDIA
ALL INDIA R
Delhi
10:DS+NEWS
USSR
CHITA OBLAST R
Chita
DS
R MOSCOW
Kalinin
100::EU
R MOSCOW
Kalinin
100:DS-3
VENEZUELA
R MARACAIBO
Maracaibo
1:DS
R MARACAIBO
Maracaibo
Irr::1:DS
4860v
ANGOLA
ER DU LUNDA
Saurimo
Irr::5:DS-PROVINC
4864v
MOZAMBIQUE
R MOCAMBIQUE
Maputo
ALT 4780:25:DS-NATL
4865
BRAZIL
R SOCIEDADE
Feira Santana
1:DS
CHINA(PR)
GANSU PBS
Lanzhou
10/15/50:DS
COLOMBIA
LV CINARUCO
Arauca
1:DS
LV CINARUCO
Arauca
Tu-Su:1:DS
4870
BENIN
ORT DU BENIN
Cotonou
M-F:30:DS
ORT DU BENIN
Cotonou
M-Sa:30:DS
ORT DU BENIN
Cotonou
30:DS
ORT DU BENIN
Cotonou
Sa/Su:30:DS
ORT DU BENIN
Cotonou
Su:30:DS
ECUADOR
R RIO AMAZONAS
Macuma
5:DS
R RIO AMAZONAS
Macuma
Tu-Su:5:DS
R RIO AMAZONAS
Macuma
Irr:Tu-Su:5:DS
R RIO AMAZONAS
Macuma
5:REPORTED
SRI LANKA
SLBC
Colombo
10:DS
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
ENGLISH
FRENCH/FRANÇAIS
GERMAN/DEUTSCH
ITALIAN/ITALIANO
JAPANESE/日本語
PORTUGUESE/PORTUGUÊS
SPANISH/ESPAÑOL
MULTILINGUAL
OTHER
JAMMING
FADE-IN
FADE-OUT

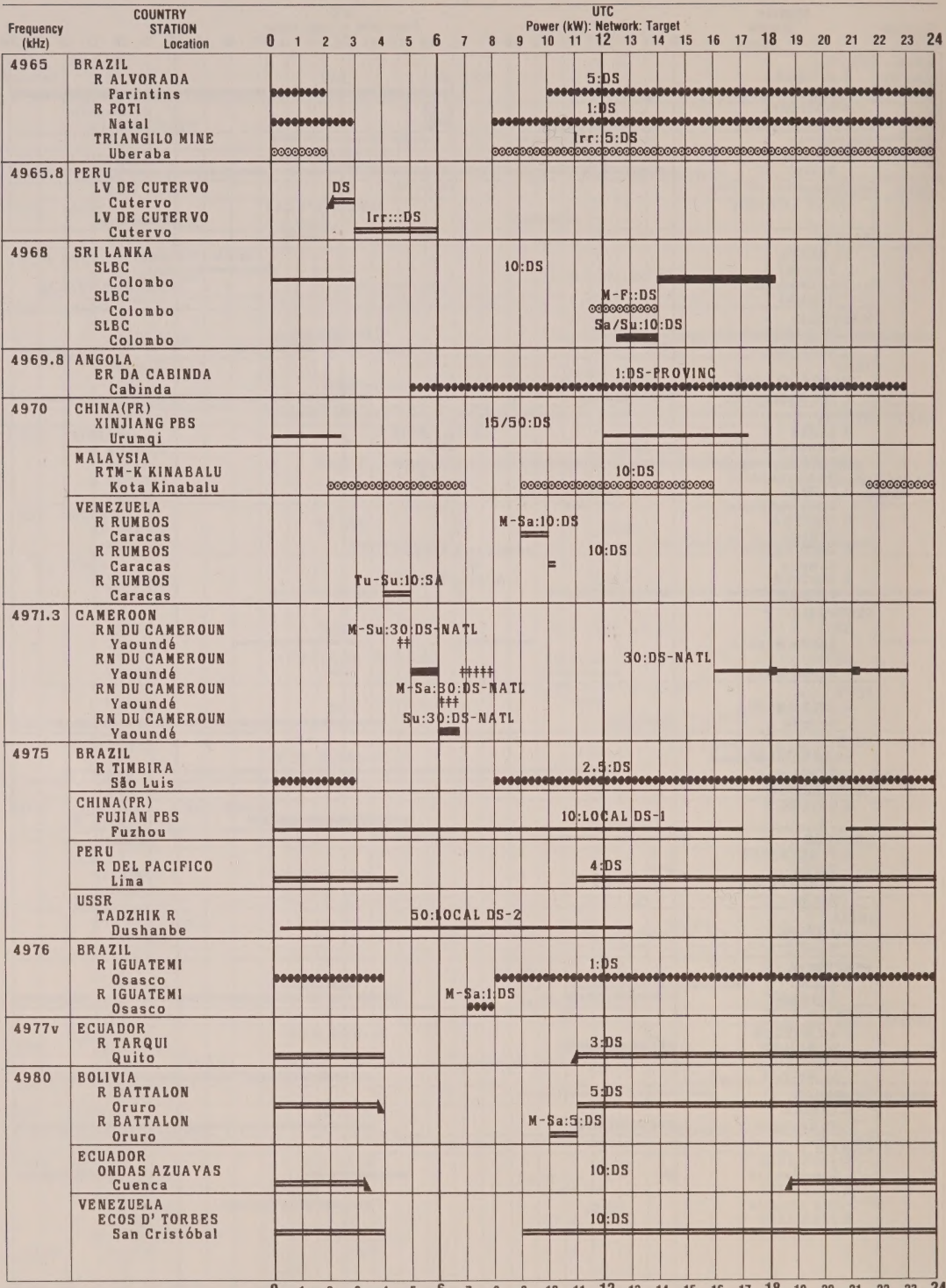

Frequency (kHz)
COUNTRY
STATION
Location
UTC
Power (kW): Network: Target
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
4875
BRAZIL
R JORNAL
Rio De janeiro
10:DS
R NACIONAL
Boa Vista
10:DS
COLOMBIA
LV DEL NORTE
Cúcuta
5:DS
PERU
R PAMPAS
Pampas
ALTERNATIVE FREQUENCY TO 4854.8
4875.8
COLOMBIA
R SUPER
Medellín
2:DS
4876v
BOLIVIA
R CRUZ DEL SUR
La Paz
M-Sa:10:DS
R CRUZ DEL SUR
La Paz
10:DS
R CRUZ DEL SUR
La Paz
Su:10:DS
4878.8
PAKISTAN
PBC
Quetta
10:DS
4880
INDIA
ALL INDIA R
Lucknow
10:REPORTED
PAKISTAN
PBC
Quetta
ALTERNATIVE FREQUENCY TO 4710
SOUTH AFRICA
SABC
Meyerton
M-F:100:DS
SABC
Meyerton
M-Sa:100:DS
SABC
Meyerton
100:DS
SABC
Meyerton
F-M/W:100:DS
SABC
Meyerton
Tu/Th:100:DS
4883
CHINA(PR)
R BEIJING
50/120::EAS
4885
BRAZIL
R CL DO PARA
Belém
5:DS
R DIF ACREANA
Rio Branco
5:DS
COLOMBIA
ONDAS DEL META
Villavicencio
5:DS
KENYA
VO KENYA
Nairobi
Irr::5:DS-EASTERN
PERU
R HUANCAVELICA
Huancavelica
1:DS
R HUANCAVELICA
Huancavelica
Irr::1:DS
VIETNAM
THANH HOA BS
Thanh Hoa
DS
4885v
ANGOLA
ER DU ZAIRE
M'banza Congo
5:DS-PROVINC
ER DU ZAIRE
M'banza Congo
Irr::5:DS-PROVINC
ER DU ZAIRE
M'banza Congo
5:DS-PROVINC
4886
BOLIVIA
R SARARENDA
Camiri
M-F:0.8:DS
R SARARENDA
Camiri
M-Sa:0.8:DS
R SARARENDA
Camiri
0.8:DS
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
ENGLISH
FRENCH/FRANÇAIS
GERMAN/DEUTSCH
ITALIAN/ITALIANO
JAPANESE/日本語
PORTUGUESE/PORTUGUÊS
SPANISH/ESPAÑOL
MULTILINGUAL
OTHER
JAMMING
FADE-IN
FADE-OUT

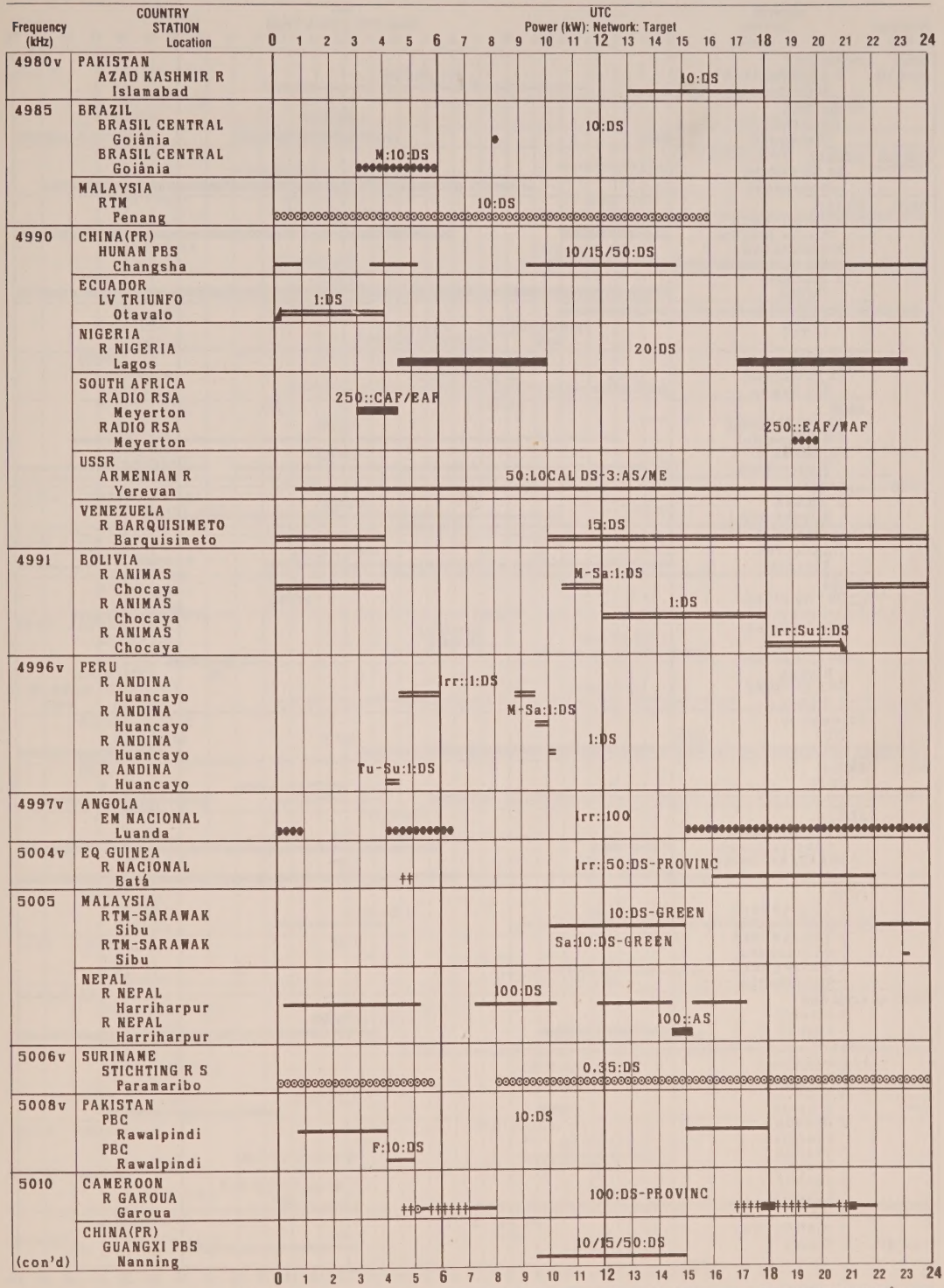

Frequency (kHz)
COUNTRY
STATION
Location
UTC
Power (kW): Network: Target
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
4886v
MOZAMBIQUE
R MOCAMBIQUE
Quelimane
Irr::0.25:DS-PROVINC
R MOCAMBIQUE
Quelimane
Irr:Sa:0.25:DS-PROVINC
4889.8
ECUADOR
CENTINELA SUR
Loja
M-Sa:2:DS
CENTINELA SUR
Loja
2:DS
CENTINELA SUR
Loja
Tu-Su:2:DS
4890
BANGLADESH
R BANGLADESH
Dhaka
100:DS
PAPUA N GUINEA
NBC
Port Moresby
10:DS
4890v
SENEGAL
ORT DU SENEGAL
Dakar
100:DS-NATL
ORT DU SENEGAL
Dakar
Irr::100:DS-NATL
4895
BRAZIL
R BARE
Manaus
5:DS
R BARE
Manaus
Irr::5:DS
INDIA
ALL INDIA R
Kurseong
20:DS
MALAYSIA
RTM-SARAWAK
Kuching
10:DS-GREEN
USSR
TURKMEN R
Ashkhabad
50:LOCAL DS-2
TYUMEN R
Tyumen
DS
4895v
ANGOLA
ER DO BIE
Bié
1:DS
4895.4
PERU
R CHANCHAMAYO
La Merced
0.4:DS
R CHANCHAMAYO
La Merced
Irr::0.4:DS
R CHANCHAMAYO
La Merced
M-Sa:0.4:DS
4898v
PERU
R SAN JUAN
Caraz
DS
4899
INDONESIA
RRI
Surakarta-J
10:DS
4900
ECUADOR
R LIBERTADOR
Saquisili
1:DS
VENEZUELA
R JUVENTUD
Barquisimeto
10:DS
4902
SRI LANKA
SLBC
Colombo
10:DS-1
4905
BRAZIL
R ARAGUAINA
Araguaína
1:DS
R RELOGIO FED
Rio De Janeiro
5:DS
4910
(con'd)
GUINEA
LV REVOLUTION
Conakry
18:DS
LV REVOLUTION
Conakry
Su:18:DS
LV REVOLUTION
Conakry
M-Sa:18:DS
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
ENGLISH
FRENCH/FRANÇAIS
GERMAN/DEUTSCH
ITALIAN/ITALIANO
JAPANESE/日本語
PORTUGUESE/PORTUGUÊS
SPANISH/ESPAÑOL
MULTILINGUAL
OTHER
JAMMING
FADE-IN
FADE-OUT

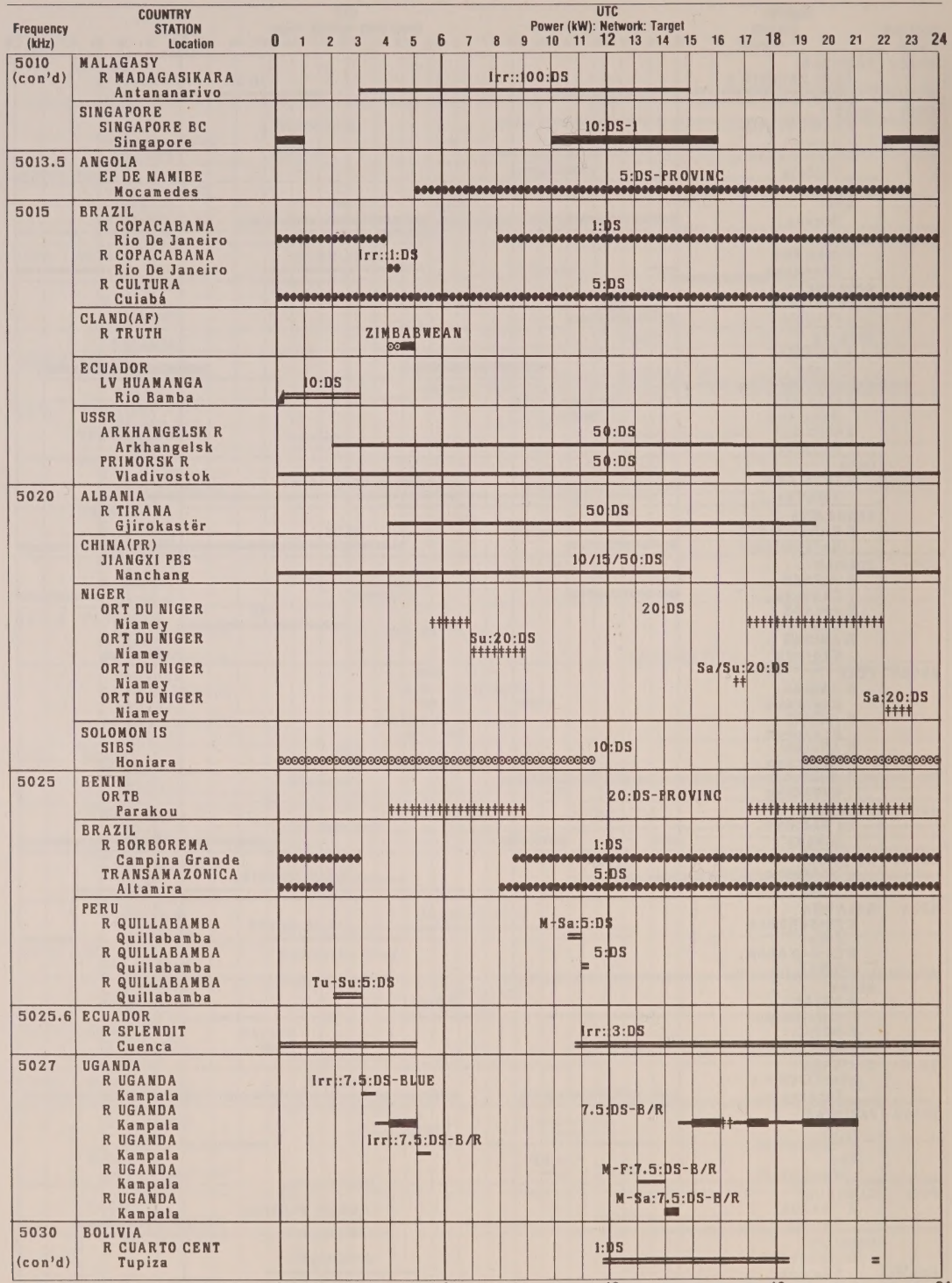

Frequency (kHz)
COUNTRY STATION Location
UTC
Power (kW): Network: Target
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
4910 (con'd)
INDONESIA
RRI
Bukittinggi-S
Irr::1:DS
ZAMBIA
R ZAMBIA
Lusaka
50:DS-HOME
R ZAMBIA
Lusaka
M-F:50:DS-HOME
R ZAMBIA
Lusaka
Sa/Su:50:DS-HOME
R ZAMBIA
Lusaka
50:DS
R ZAMBIA
Lusaka
Su-Th:50:DS
R ZAMBIA
Lusaka
F/Sa:50:DS
4911v
ECUADOR
GRAN COLOMBIA
Quito
10
4913v
MOZAMBIQUE
R MOCAMBIQUE
Maputo
Irr::7.5:DS-PROVINC
4914.6
KENYA
VO KENYA
Nairobi
M-Sa:100:DS
VO KENYA
Nairobi
100:DS
VO KENYA
Nairobi
Su-F:100:DS
VO KENYA
Nairobi
Sa:100:DS
4915
BRAZIL
R ANHANGUERA
Goiânia
10:DS
CHINA(PR)
GUANGXI PBS
Nanning
10/15/50:DS
GHANA
R GHANA
Accra
10:DS-1
R GHANA
Accra
Su:10:DS-1
R GHANA
Accra
M-F:10:DS-1
R GHANA
Accra
Sa/Su:10:DS-1
R GHANA
Accra
10:DS
4920
AUSTRALIA
ABC
Brisbane
10:DS
INDIA
ALL INDIA R
Madras
10:LOCAL DS-A
INDONESIA
RRI TANJUNG PI
Tan Pinang-S
10:DS
USSR
YAKUT R
Yakutsk
50:DS
4920.4
ECUADOR
R QUITO
Quito
5:DS
R QUITO
Quito
Tu-Su:5:DS
4922
PERU
ONDAS TITICACA
Puno
Irr:Su:1:DS
ONDAS TITICACA
Puno
1:DS
ONDAS TITICACA
Puno
Tu-Su:1:DS
4925
BOLIVIA
R NORTE
Montero
ALT 4937:1.5:DS
BRAZIL
R DIFUSORA
Taubaté
1:DS
(con'd)
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
ENGLISH
FRENCH/FRANÇAIS
GERMAN/DEUTSCH
ITALIAN/ITALIANO
JAPANESE/日本語
PORTUGUESE/PORTUGUÊS
SPANISH/ESPAÑOL
MULTILINGUAL
OTHER
JAMMING
FADE-IN
FADE-OUT

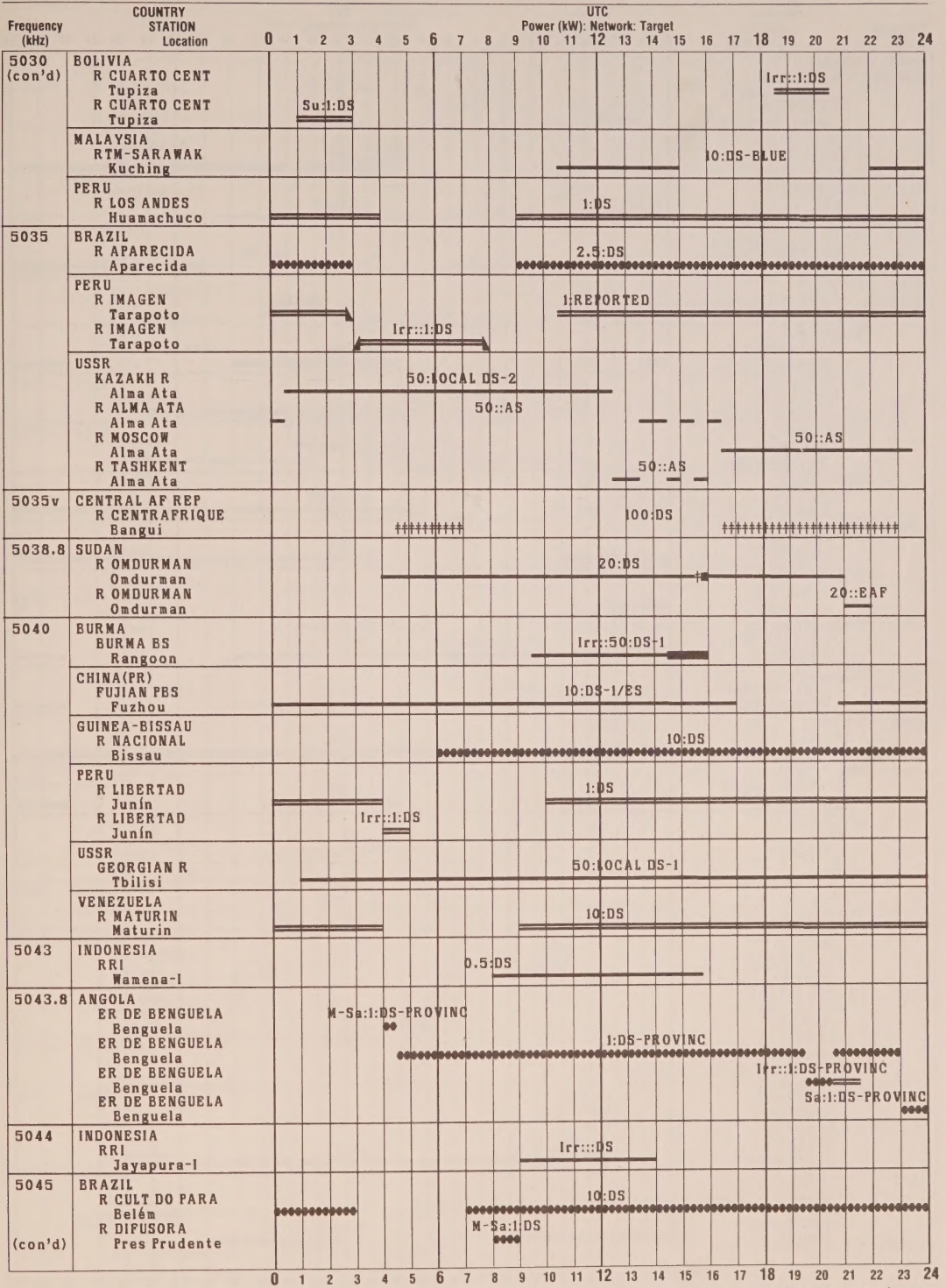

Frequency (kHz)
COUNTRY STATION Location
UTC
Power (kW): Network: Target
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
4925 (con'd)
BRAZIL
R NORTE
Taubaté
Su:1:DS
CHINA(PR)
HEILONGJIANG
Harbin
15/50:LOCAL DS-2
4925v
EQ GUINEA
R NACIONAL
Batá
Irr::5/50:DS-PROVINC
4926
PERU
RN CONTINENTE
Ayacucho
0.5:DS
4926v
MOZAMBIQUE
R MOCAMBIQUE
Maputo
Irr::7.5:DS-PROVINC
4930
HAITI
4VEH
Cap Haïtien
DS
USSR
R MOSCOW
Tbilisi
50:DS-2
R MOSCOW
Ashkhabad
50:DS-2
4932
NIGERIA
R NIGERIA
Lagos
50:DS-EDUCAT
R NIGERIA
Lagos
Irr::50:DS-EDUCAT
4934
KENYA
VO KENYA
Nairobi
20:DS
4935v
PERU
R TROPICAL
Tarapoto
1:DS
4937v
BOLIVIA
R NORTE
Montero
ALT 4925:1.5:DS
R NORTE
Montero
ALT 4925:Tu-Su:1.5:DS
R NORTE
Montero
ALT 4925:Irr:M-Sa:1.5:DS
R NORTE
Montero
ALT 4925:Irr:Su:1.5:DS
R NORTE
Montero
ALT 4925:Irr::1.5:DS
R NORTE
Montero
ALT 4925:Su:1.5:DS
4940
CHINA(PR)
QINGHAI PBS
Xining
10/15/50:DS
INDIA
ALL INDIA R
Gauhati
10:LOCAL DS-A
IVORY COAST
RTV IVOIRIENNE
Abidjan
25:DS
SRI LANKA
SLBC
Colombo
10:DS-2
SLBC
Colombo
Sa/Su:10:DS-2
USSR
UKRAINIAN R
Kiev
50:LOCAL DS-2
YAKUT R
Yakutsk
50:DS
4941
ANGOLA
ER DO MALANJE
Malanje
Irr::1:DS-PROVINC
4945 (con'd)
BOLIVIA
R ILLIMANI
La Paz
Su:10:DS
R ILLIMANI
La Paz
10:DS
R ILLIMANI
La Paz
Tu-Su:10:DS
ENGLISH
FRENCH/FRANÇAIS
GERMAN/DEUTSCH
ITALIAN/ITALIANO
JAPANESE/日本語
PORTUGUESE/PORTUGUÊS
SPANISH/ESPAÑOL
MULTILINGUAL
OTHER
JAMMING
FADE-IN
FADE-OUT

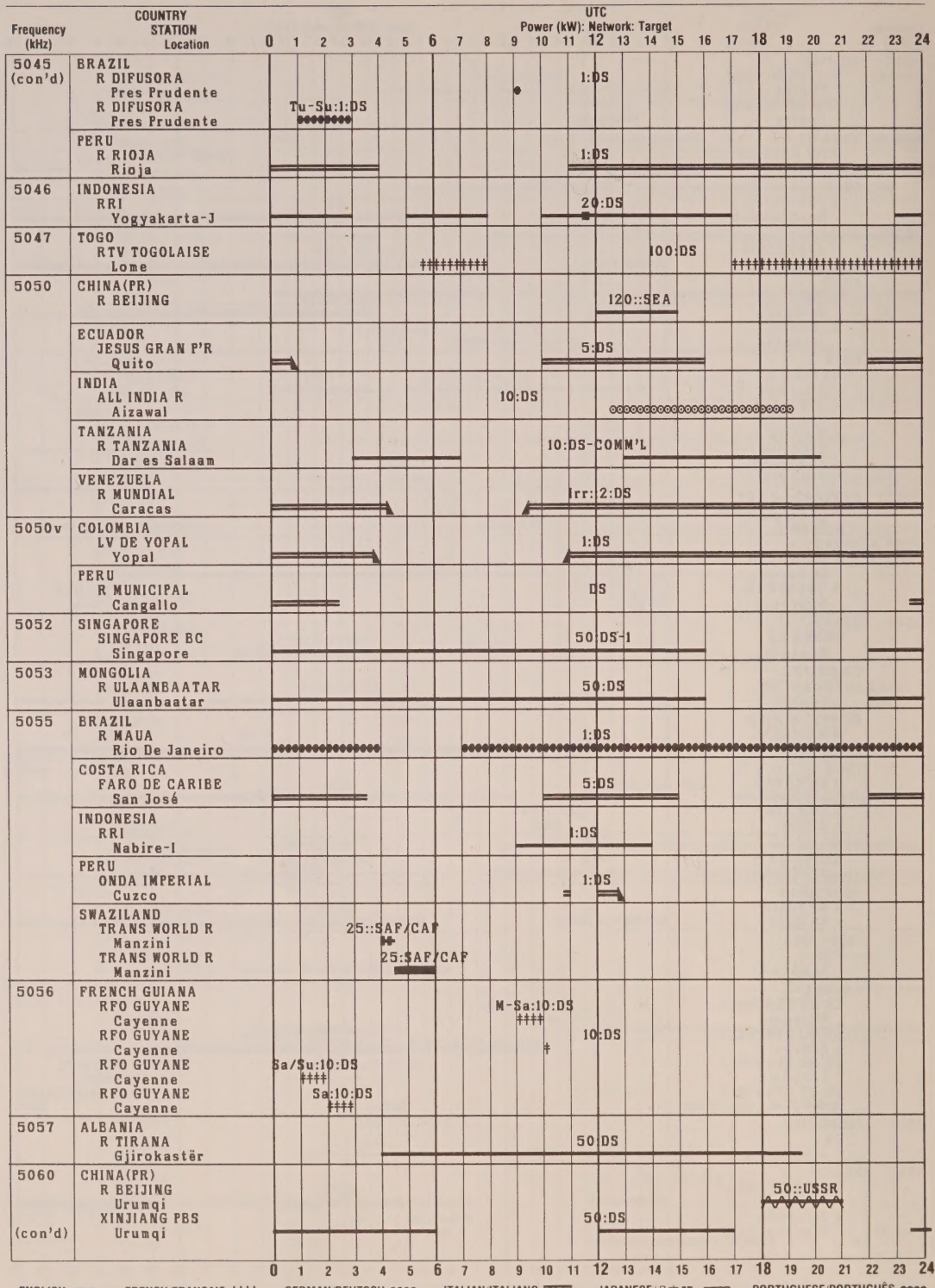

Frequency (kHz)
COUNTRY STATION Location
UTC
Power (kW): Network: Target
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
4945 (con'd)
BRAZIL
R DIFUSORA
Poços Caldas
1:DS
R NACIONAL
Pôrto Velho
5:DS
COLOMBIA
R COLOSAL
Neiva
2.5:DS-CARACOL
4950
CLAND(AF)
AV DA VERDADE
ZIMB-UNITA:SAF
KENYA
VO KENYA
Nairobi
10:DS-CENTRAL
VO KENYA
Nairobi
Irr::10:DS-CENTRAL
MALAYSIA
RTM-SARAWAK
Kuching
10:DS-RED
PERU
MADRE DE DIOS
Pto Maldonado
5:DS
4955
BRAZIL
R CLUBE
Rondonópolis
M-Sa:2.5:DS
R CLUBE
Rondonópolis
2.5:DS
R CLUBE
Rondonópolis
Tu-Su:2.5:DS
R CULTURA
Campos
2.5:DS
R CULTURA
Campos
Irr:M-Sa:2.5:DS
R CULTURA
Campos
M-Sa:2.5:DS
INDONESIA
RRI
Banda Aceh-S
10:DS
RRI
Banda Aceh-S
Su:10:DS
PERU
R CULT AMAUTA
Huanta
1:DS
4958
USSR
AZERBAIJANI R
Baku
50:LOCAL DS+2
4960
CHINA(PR)
R BEIJING
50/120::EAS
ECUADOR
R FEDERACION
Sucúa
5:DS
R FEDERACION
Sucúa
Tu-Su:5:DS
INDIA
ALL INDIA R
Ranchi
10:DS
VENEZUELA
R SUCRE
Cuamana
1:DS
4960.2
PERU
R LA MERCED
La Merced
Tu-Su:0.5:DS
R LA MERCED
La Merced
0.5:DS
4964.6
HONDURAS
R LANDIA
Comayagua
Irr::1:DS
4964.8
BOLIVIA
R JUAN XXIII
San Ignacio
M-Sa:1:DS
R JUAN XXIII
San Ignacio
Su:1:DS
R JUAN XXIII
San Ignacio
Irr:Su:1:DS
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
ENGLISH
FRENCH/FRANÇAIS
GERMAN/DEUTSCH
ITALIAN/ITALIANO
JAPANESE/日本語
PORTUGUESE/PORTUGUÊS
SPANISH/ESPAÑOL
MULTILINGUAL
OTHER
JAMMING
FADE-IN
FADE-OUT


Frequency (kHz)
COUNTRY
STATION
Location
UTC
Power (kW): Network: Target
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
4965
BRAZIL
R ALVORADA
Parintins
R POTI
Natal
TRIANGILO MINE
Uberaba
5:DS
1:DS
Irr: 5:DS
4965.8
PERU
LV DE CUTERVO
Cutervo
LV DE CUTERVO
Cutervo
DS
Irr:::DS
4968
SRI LANKA
SLBC
Colombo
SLBC
Colombo
SLBC
Colombo
10:DS
M-F::DS
Sa/Su:10:DS
4969.8
ANGOLA
ER DA CABINDA
Cabinda
1:DS-PROVINC
4970
CHINA(PR)
XINJIANG PBS
Urumqi
15/50:DS
MALAYSIA
RTM-K KINABALU
Kota Kinabalu
10:DS
VENEZUELA
R RUMBOS
Caracas
R RUMBOS
Caracas
R RUMBOS
Caracas
M-Sa:10:DS
10:DS
Tu-Su:10:SA
4971.3
CAMEROON
RN DU CAMEROUN
Yaoundé
RN DU CAMEROUN
Yaoundé
RN DU CAMEROUN
Yaoundé
RN DU CAMEROUN
Yaoundé
M-Su:30:DS-NATL
30:DS-NATL
M-Sa:30:DS-NATL
Su:30:DS-NATL
4975
BRAZIL
R TIMBIRA
São Luis
CHINA(PR)
FUJIAN PBS
Fuzhou
PERU
R DEL PACIFICO
Lima
USSR
TADZHIK R
Dushanbe
2.5:DS
10:LOCAL DS-1
4:DS
50:LOCAL DS-2
4976
BRAZIL
R IGUATEMI
Osasco
R IGUATEMI
Osasco
1:DS
M-Sa:1:DS
4977v
ECUADOR
R TARQUI
Quito
3:DS
4980
BOLIVIA
R BATTALON
Oruro
R BATTALON
Oruro
ECUADOR
ONDAS AZUAYAS
Cuenca
VENEZUELA
ECOS D' TORBES
San Cristóbal
5:DS
M-Sa:5:DS
10:DS
10:DS
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
ENGLISH
FRENCH/FRANÇAIS
GERMAN/DEUTSCH
ITALIAN/ITALIANO
JAPANESE/日本語
PORTUGUESE/PORTUGUÊS
SPANISH/ESPAÑOL
MULTILINGUAL
OTHER
JAMMING
FADE-IN
FADE-OUT


Frequency (kHz)
COUNTRY STATION Location
UTC
Power (kW): Network: Target
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
4980v
PAKISTAN
AZAD KASHMIR R
Islamabad
10:DS
4985
BRAZIL
BRASIL CENTRAL
Goiânia
BRASIL CENTRAL
Goiânia
10:DS
M:10:DS
MALAYSIA
RTM
Penang
10:DS
4990
CHINA(PR)
HUNAN PBS
Changsha
10/15/50:DS
ECUADOR
LV TRIUNFO
Otavalo
1:DS
NIGERIA
R NIGERIA
Lagos
20:DS
SOUTH AFRICA
RADIO RSA
Meyerton
RADIO RSA
Meyerton
250::CAF/EAF
250::EAF/WAF
USSR
ARMENIAN R
Yerevan
50:LOCAL DS+3:AS/ME
VENEZUELA
R BARQUISIMETO
Barquisimeto
15:DS
4991
BOLIVIA
R ANIMAS
Chocaya
R ANIMAS
Chocaya
R ANIMAS
Chocaya
M-Sa:1:DS
1:DS
Irr:Su:1:DS
4996v
PERU
R ANDINA
Huancayo
R ANDINA
Huancayo
R ANDINA
Huancayo
R ANDINA
Huancayo
Irr::1:DS
M-Sa:1:DS
1:DS
Tu-Su:1:DS
4997v
ANGOLA
EM NACIONAL
Luanda
Irr::100
5004v
EQ GUINEA
R NACIONAL
Bata
Irr::50:DS-PROVINC
5005
MALAYSIA
RTM-SARAWAK
Sibu
RTM-SARAWAK
Sibu
10:DS-GREEN
Sa:10:DS-GREEN
NEPAL
R NEPAL
Harriharpur
R NEPAL
Harriharpur
100:DS
100::AS
5006v
SURINAME
STICHTING R S
Paramaribo
0.35:DS
5008v
PAKISTAN
PBC
Rawalpindi
PBC
Rawalpindi
10:DS
F:10:DS
5010
CAMEROON
R GAROUA
Garoua
100:DS-PROVINC
(con'd)
CHINA(PR)
GUANGXI PBS
Nanning
10/15/50:DS
ENGLISH
FRENCH/FRANÇAIS
GERMAN/DEUTSCH
ITALIAN/ITALIANO
JAPANESE/日本語
PORTUGUESE/PORTUGUÊS
SPANISH/ESPAÑOL
MULTILINGUAL
OTHER
JAMMING
FADE-IN
FADE-OUT


Frequency (kHz)
COUNTRY
STATION
Location
UTC
Power (kW): Network: Target
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
5010 (con'd)
MALAGASY
R MADAGASIKARA
Antananarivo
Irr::100:DS
SINGAPORE
SINGAPORE BC
Singapore
10:DS-1
5013.5
ANGOLA
EP DE NAMIBE
Mocamedes
5:DS-PROVINC
5015
BRAZIL
R COPACABANA
Rio De Janeiro
1:DS
R COPACABANA
Rio De Janeiro
Irr::1:DS
R CULTURA
Cuiabá
5:DS
CLAND(AF)
R TRUTH
ZIMBABWEAN
ECUADOR
LV HUAMANGA
Rio Bamba
10:DS
USSR
ARKHANGELSK R
Arkhangelsk
50:DS
PRIMORSK R
Vladivostok
50:DS
5020
ALBANIA
R TIRANA
Gjirokastër
50:DS
CHINA(PR)
JIANGXI PBS
Nanchang
10/15/50:DS
NIGER
ORT DU NIGER
Niamey
20:DS
ORT DU NIGER
Niamey
Su:20:DS
ORT DU NIGER
Niamey
Sa/Su:20:DS
ORT DU NIGER
Niamey
Sa:20:DS
SOLOMON IS
SIBS
Honiara
10:DS
5025
BENIN
ORTB
Parakou
20:DS-PROVINC
BRAZIL
R BORBOREMA
Campina Grande
1:DS
TRANSAMAZONICA
Altamira
5:DS
PERU
R QUILLABAMBA
Quillabamba
M-Sa:5:DS
R QUILLABAMBA
Quillabamba
5:DS
R QUILLABAMBA
Quillabamba
Tu-Su:5:DS
5025.6
ECUADOR
R SPLENDIT
Cuenca
Irr: 3:DS
5027
UGANDA
R UGANDA
Kampala
Irr::7.5:DS-BLUE
R UGANDA
Kampala
7.5:DS-B/R
R UGANDA
Kampala
Irr::7.5:DS-B/R
R UGANDA
Kampala
M-F:7.5:DS-B/R
R UGANDA
Kampala
M-Sa:7.5:DS-B/R
5030 (con'd)
BOLIVIA
R CUARTO CENT
Tupiza
1:DS
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
ENGLISH
FRENCH/FRANÇAIS
GERMAN/DEUTSCH
ITALIAN/ITALIANO
JAPANESE/日本語
PORTUGUESE/PORTUGUÊS
SPANISH/ESPAÑOL
MULTILINGUAL
OTHER
JAMMING
FADE-IN
FADE-OUT


Frequency (kHz)
COUNTRY STATION Location
UTC
Power (kW): Network: Target
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
5030 (con'd)
BOLIVIA
R CUARTO CENT Tupiza
R CUARTO CENT Tupiza
Su::1:DS
Irr::1:DS
MALAYSIA
RTM-SARAWAK Kuching
10:DS-BLUE
PERU
R LOS ANDES Huamachuco
1:DS
5035
BRAZIL
R APARECIDA Aparecida
2.5:DS
PERU
R IMAGEN Tarapoto
R IMAGEN Tarapoto
1:REPORTED
Irr::1:DS
USSR
KAZAKH R Alma Ata
R ALMA ATA Alma Ata
R MOSCOW Alma Ata
R TASHKENT Alma Ata
50:LOCAL DS-2
50::AS
50::AS
50::AS
5035v
CENTRAL AF REP
R CENTRAFRIQUE Bangui
100:DS
5038.8
SUDAN
R OMDURMAN Omdurman
R OMDURMAN Omdurman
20:DS
20::EAF
5040
BURMA
BURMA BS Rangoon
Irr::50:DS-1
CHINA(PR)
FUJIAN PBS Fuzhou
10:DS-1/ES
GUINEA-BISSAU
R NACIONAL Bissau
10:DS
PERU
R LIBERTAD Junín
R LIBERTAD Junín
1:DS
Irr::1:DS
USSR
GEORGIAN R Tbilisi
50:LOCAL DS-1
VENEZUELA
R MATURIN Maturin
10:DS
5043
INDONESIA
RRI Wamena-I
0.5:DS
5043.8
ANGOLA
ER DE BENGUELA Benguela
ER DE BENGUELA Benguela
ER DE BENGUELA Benguela
ER DE BENGUELA Benguela
M-Sa:1:DS-PROVINC
1:DS-PROVINC
Irr::1:DS-PROVINC
Sa:1:DS-PROVINC
5044
INDONESIA
RRI Jayapura-I
Irr:::DS
5045 (con'd)
BRAZIL
R CULT DO PARA Belém
R DIFUSORA Pres Prudente
10:DS
M-Sa:1:DS
ENGLISH
FRENCH/FRANÇAIS
GERMAN/DEUTSCH
ITALIAN/ITALIANO
JAPANESE/日本語
PORTUGUESE/PORTUGUÊS
SPANISH/ESPAÑOL
MULTILINGUAL
OTHER
JAMMING
FADE-IN
FADE-OUT


Frequency (kHz)
COUNTRY STATION Location
UTC
Power (kW): Network: Target
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
5045 (con'd)
BRAZIL
R DIFUSORA
Pres Prudente
R DIFUSORA
Pres Prudente
Tu-Su:1:DS
1:DS
PERU
R RIOJA
Rioja
1:DS
5046
INDONESIA
RRI
Yogyakarta-J
20:DS
5047
TOGO
RTV TOGOLAISE
Lome
100:DS
5050
CHINA(PR)
R BEIJING
120::SEA
ECUADOR
JESUS GRAN P'R
Quito
5:DS
INDIA
ALL INDIA R
Aizawal
10:DS
TANZANIA
R TANZANIA
Dar es Salaam
10:DS-COMM'L
VENEZUELA
R MUNDIAL
Caracas
Irr: 2:DS
5050v
COLOMBIA
LV DE YOPAL
Yopal
1:DS
PERU
R MUNICIPAL
Cangallo
DS
5052
SINGAPORE
SINGAPORE BC
Singapore
50:DS-1
5053
MONGOLIA
R ULAANBAATAR
Ulaanbaatar
50:DS
5055
BRAZIL
R MAUA
Rio De Janeiro
1:DS
COSTA RICA
FARO DE CARIBE
San José
5:DS
INDONESIA
RRI
Nabire-I
1:DS
PERU
ONDA IMPERIAL
Cuzco
1:DS
SWAZILAND
TRANS WORLD R
Manzini
TRANS WORLD R
Manzini
25::SAF/CAF
25:SAF/CAF
5056
FRENCH GUIANA
RFO GUYANE
Cayenne
RFO GUYANE
Cayenne
RFO GUYANE
Cayenne
RFO GUYANE
Cayenne
M-Sa:10:DS
10:DS
Sa/Su:10:DS
Sa:10:DS
5057
ALBANIA
R TIRANA
Gjirokastër
50:DS
5060 (con'd)
CHINA(PR)
R BEIJING
Urumqi
XINJIANG PBS
Urumqi
50::USSR
50:DS
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
ENGLISH
FRENCH/FRANÇAIS
GERMAN/DEUTSCH
ITALIAN/ITALIANO
JAPANESE/日本語
PORTUGUESE/PORTUGUÊS
SPANISH/ESPAÑOL
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JAMMING
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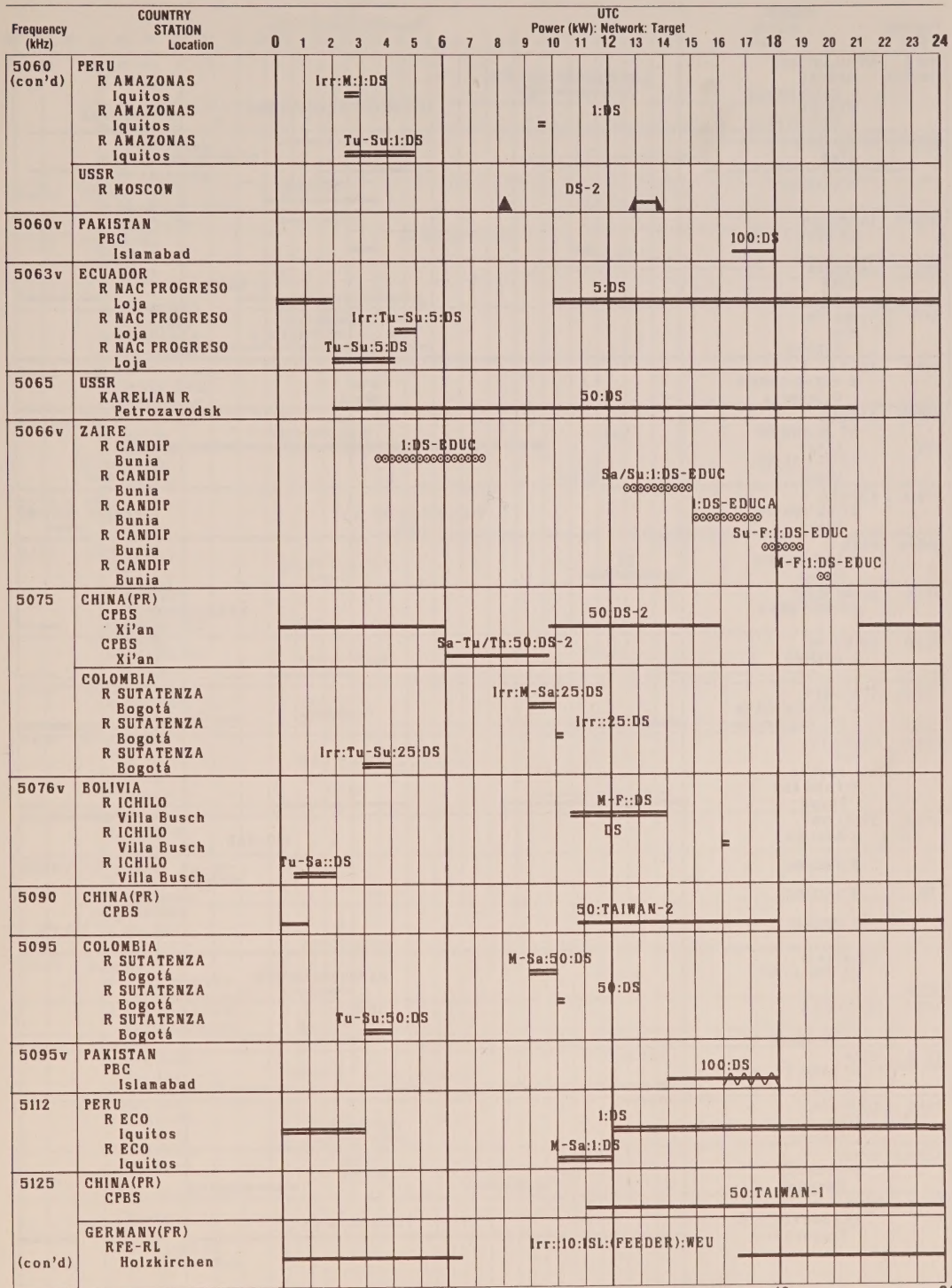
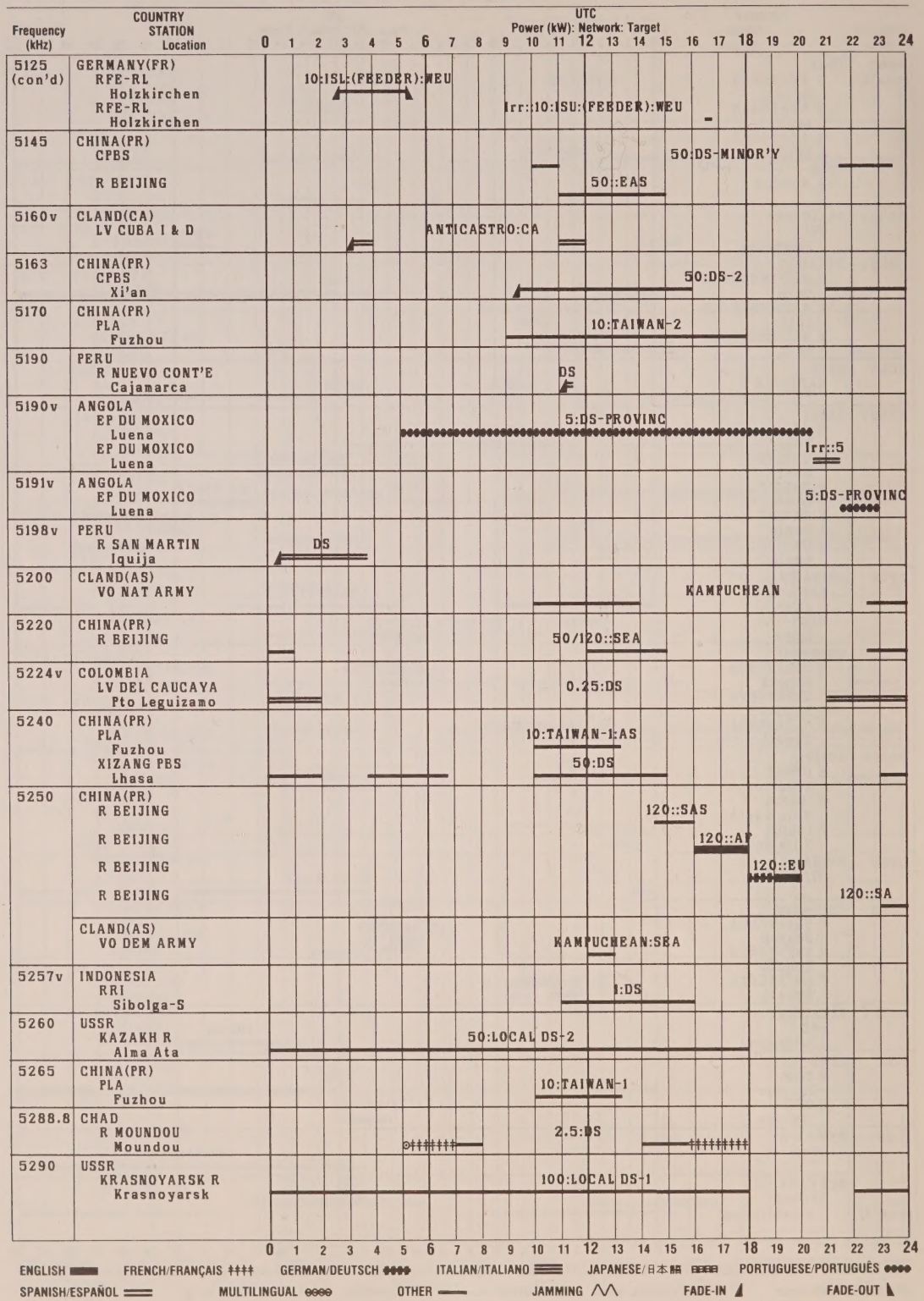
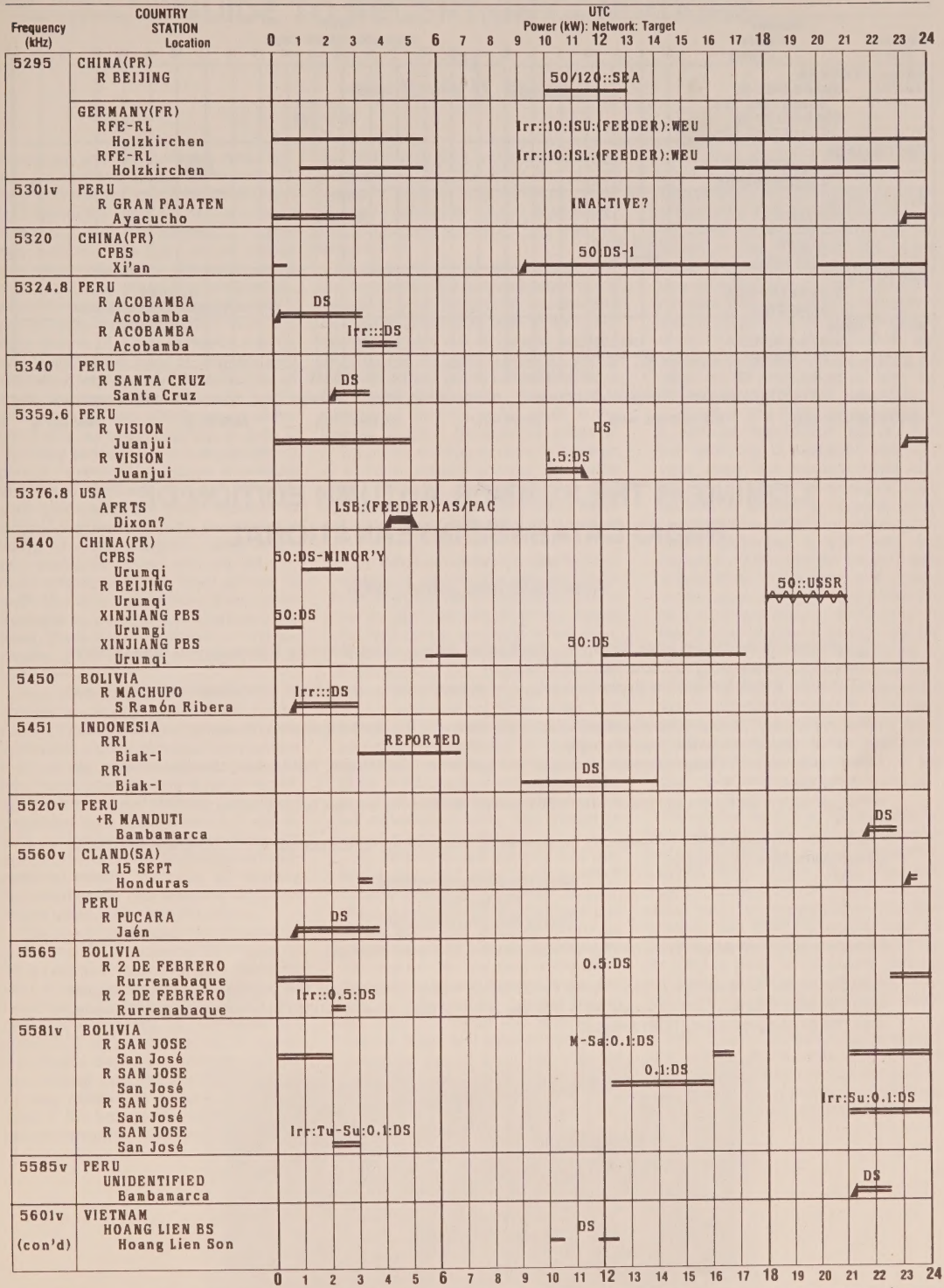
FADE-OUT


Frequency (kHz)
COUNTRY STATION Location
UTC
Power (kW): Network: Target
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
5060 (con'd)
PERU
R AMAZONAS Iquitos
R AMAZONAS Iquitos
R AMAZONAS Iquitos
Irr:M:1:DS
1:DS
Tu-Su:1:DS
USSR
R MOSCOW
DS-2
5060v
PAKISTAN
PBC Islamabad
100:DS
5063v
ECUADOR
R NAC PROGRESO Loja
R NAC PROGRESO Loja
R NAC PROGRESO Loja
5:DS
Irr:Tu-Su:5:DS
Tu-Su:5:DS
5065
USSR
KARELIAN R Petrozavodsk
50:DS
5066v
ZAIRE
R CANDIP Bunia
R CANDIP Bunia
R CANDIP Bunia
R CANDIP Bunia
R CANDIP Bunia
1:DS-EDUC
Sa/Su:1:DS-EDUC
1:DS-EDUCA
Su-F:1:DS-EDUC
M-F:1:DS-EDUC
5075
CHINA(PR)
CPBS Xi'an
CPBS Xi'an
50 DS-2
Sa-Tu/Th:50:DS-2
COLOMBIA
R SUTATENZA Bogotá
R SUTATENZA Bogotá
R SUTATENZA Bogotá
Irr:M-Sa:25:DS
Irr::25:DS
Irr:Tu-Su:25:DS
5076v
BOLIVIA
R ICHILO Villa Busch
R ICHILO Villa Busch
R ICHILO Villa Busch
M-F::DS
DS
Tu-Sa::DS
5090
CHINA(PR)
CPBS
50:TAIWAN-2
5095
COLOMBIA
R SUTATENZA Bogotá
R SUTATENZA Bogotá
R SUTATENZA Bogotá
M-Sa:50:DS
50:DS
Tu-Su:50:DS
5095v
PAKISTAN
PBC Islamabad
100:DS
5112
PERU
R ECO Iquitos
R ECO Iquitos
1:DS
M-Sa:1:DS
5125
CHINA(PR)
CPBS
50:TAIWAN-1
GERMANY(FR)
RFE-RL Holzkirchen
(con'd)
Irr::10:ISL:(FEEDER):WEU
ENGLISH
FRENCH/FRANÇAIS
GERMAN/DEUTSCH
ITALIAN/ITALIANO
JAPANESE/日本語
PORTUGUESE/PORTUGUÊS
SPANISH/ESPAÑOL
MULTILINGUAL
OTHER
JAMMING
FADE-IN
FADE-OUT


Frequency (kHz)
COUNTRY STATION Location
UTC
Power (kW): Network: Target
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
5125 (con'd)
GERMANY(FR)
RFE-RL Holzkirchen
RFE-RL Holzkirchen
10:ISL:(FEEDER):WEU
Irr::10:ISU:(FEEDER):WEU
5145
CHINA(PR)
CPBS
R BEIJING
50:DS-MINOR'Y
50::EAS
5160v
CLAND(CA)
LV CUBA I & D
ANTICASTRO:CA
5163
CHINA(PR)
CPBS Xi'an
50:DS-2
5170
CHINA(PR)
PLA Fuzhou
10:TAIWAN-2
5190
PERU
R NUEVO CONT'E Cajamarca
DS
5190v
ANGOLA
EP DU MOXICO Luena
EP DU MOXICO Luena
5:DS-PROVINC
Irr::5
5191v
ANGOLA
EP DU MOXICO Luena
5:DS-PROVINC
5198v
PERU
R SAN MARTIN Iquija
DS
5200
CLAND(AS)
VO NAT ARMY
KAMPUCHEAN
5220
CHINA(PR)
R BEIJING
50/120::SEA
5224v
COLOMBIA
LV DEL CAUCAYA Pto Leguizamo
0.25:DS
5240
CHINA(PR)
PLA Fuzhou
XIZANG PBS Lhasa
10:TAIWAN-1:AS
50:DS
5250
CHINA(PR)
R BEIJING
R BEIJING
R BEIJING
R BEIJING
120::SAS
120::AF
120::EU
120::SA
CLAND(AS)
VO DEM ARMY
KAMPUCHEAN:SEA
5257v
INDONESIA
RRI Sibolga-S
1:DS
5260
USSR
KAZAKH R Alma Ata
50:LOCAL DS-2
5265
CHINA(PR)
PLA Fuzhou
10:TAIWAN-1
5288.8
CHAD
R MOUNDOU Moundou
2.5:DS
5290
USSR
KRASNOYARSK R Krasnoyarsk
100:LOCAL DS-1
ENGLISH
FRENCH/FRANÇAIS
GERMAN/DEUTSCH
ITALIAN/ITALIANO
JAPANESE/日本語
PORTUGUESE/PORTUGUÊS
SPANISH/ESPAÑOL
MULTILINGUAL
OTHER
JAMMING
FADE-IN
FADE-OUT


Frequency (kHz)
COUNTRY STATION Location
UTC
Power (kW): Network: Target
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5295
CHINA(PR)
R BEIJING
50/120::SEA
GERMANY(FR)
RFE-RL
Holzkirchen
Irr::10:ISU:(FEEDER):WEU
RFE-RL
Holzkirchen
Irr::10:ISL:(FEEDER):WEU
5301v
PERU
R GRAN PAJATEN
Ayacucho
INACTIVE?
5320
CHINA(PR)
CPBS
Xi'an
50 DS-1
5324.8
PERU
R ACOBAMBA
Acobamba
DS
R ACOBAMBA
Acobamba
Irr:::DS
5340
PERU
R SANTA CRUZ
Santa Cruz
DS
5359.6
PERU
R VISION
Juanjui
DS
R VISION
Juanjui
1.5:DS
5376.8
USA
AFRTS
Dixon?
LSB:(FEEDER):AS/PAC
5440
CHINA(PR)
CPBS
Urumqi
50:DS-MINOR'Y
R BEIJING
Urumqi
50::USSR
XINJIANG PBS
Urumqi
50:DS
XINJIANG PBS
Urumqi
50:DS
5450
BOLIVIA
R MACHUPO
S Ramón Ribera
Irr:::DS
5451
INDONESIA
RRI
Biak-I
REPORTED
RRI
Biak-I
DS
5520v
PERU
+R MANDUTI
Bambamarca
DS
5560v
CLAND(SA)
R 15 SEPT
Honduras
PERU
R PUCARA
Jaén
DS
5565
BOLIVIA
R 2 DE FEBRERO
Rurrenabaque
0.5:DS
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R SAN JOSE
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San José
Irr:Tu-Su:0.1:DS
5585v
PERU
UNIDENTIFIED
Bambamarca
DS
5601v (con'd)
VIETNAM
HOANG LIEN BS
Hoang Lien Son
DS
ENGLISH
FRENCH/FRANÇAIS
GERMAN/DEUTSCH
ITALIAN/ITALIANO
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SPANISH/ESPAÑOL
MULTILINGUAL
OTHER
JAMMING
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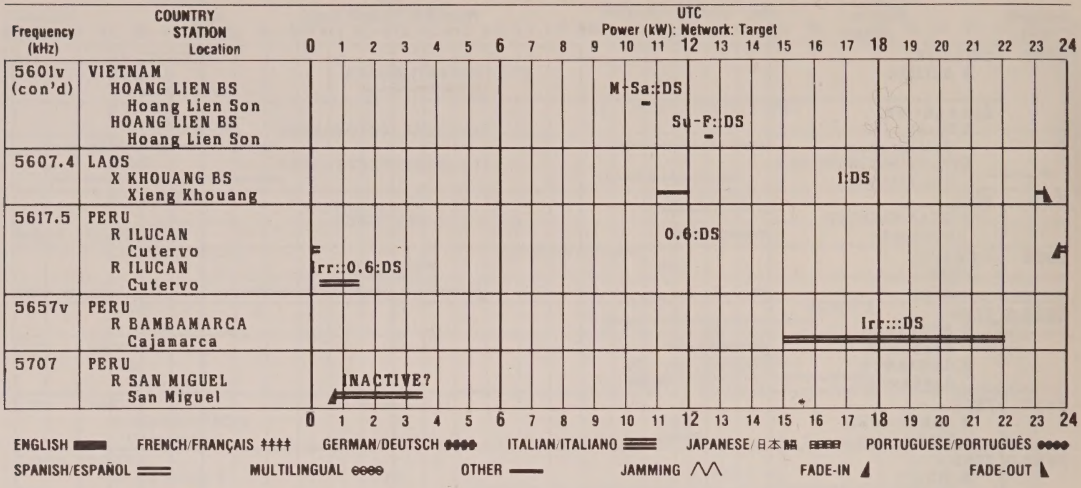
FADE-OUT



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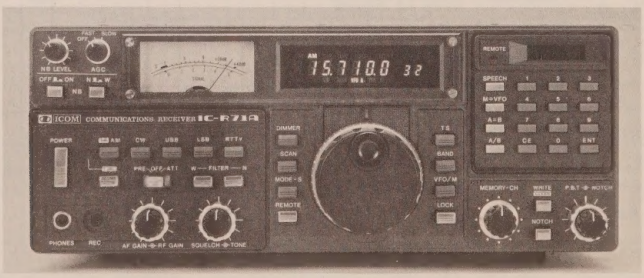
Additional copies of this *Special Edition: Tropical Bands Survey* may be obtained until June 25, 1984, for US$3.95 postpaid worldwide (add US$2.00 for airmail outside North America). After that date, please add US$0.85 for surface postage worldwide and US$2.85 for airmail outside North America.



The new ICOM IC-R71A "dream receiver". Is it, really?
Find out in Larry Magne's equipment reviews in the next edition of the ***Database.***

GUIDE TO RECEPTION CONDITIONS

by
Dr. David D. Meisel

Shortwave and Mediumwave radio signals are able to span the world because they are reflected from an electrified layer of the earth's upper atmosphere called the ionosphere. This seemingly miraculous behavior, however, is not without one major drawback—the ionosphere has constantly changing properties, which even in this age of high technology are not completely understood. While the fickle nature of radio reception via the ionosphere is the bane of listeners who want completely reliable reception at all times, the same variations are the delight of listeners (DXers) who thrive on reception that is out of the ordinary. In spite of the many variations, it is now possible to predict "average" reception conditions from 3 to 6 months in advance. Although such predictions are often available to engineering staffs of radio broadcasters doing frequency planning, radio listeners—particularly those who are not also radio amateurs—rarely have access to such technical information. Even when available to the average shortwave listener, these highly technical summaries require a background in geophysics to use effectively.

As a shortwave listener and technical monitor for several international broadcasters I have tried, over the last decade, to develop a computer prediction system that can be used to advantage by all shortwave listeners regardless of technical experience and training. The charts presented here are the result of my efforts combined with the cooperation and advice of the other **Radio Database International** editors. We hope all listeners find them useful and welcome any comments users have regarding them.

The charts presented here show what is the chance of receiving transmissions on a particular frequency at a particular time of day (given for convenience as Coordinated Universal Time—UTC). The darker the shading on the chart, the *GREATER* is the chance of reception. Completely dark areas indicate that under "normal" conditions reception should be very reliable on a nearly day-to-day basis if the broadcaster is using a high power transmitter and low angle antenna. Completely light areas indicate that reception on that frequency and at that particular time is quite unlikely under "normal" conditions even if high power transmitters and low angle antennas are in use.

The instructions for use are fairly simple. Select the chart whose endpoints are closest to your geographic location and that of the station you wish to hear. For example, if you live in Europe and you wish to hear Vietnam you should choose the chart corresponding to the **EUROPE—SE ASIA/E ASIA** path. (Note that it is possible to use the same chart in the reverse direction, for example, a listener in Sri Lanka wanting to receive a station in Europe should choose the same chart.) Once the appropriate path chart has been located there are several different ways to use the information presented:

1) When you know the time and frequency in use for a particular broadcast and you wish to determine what is the chance of picking it up: First, locate the time on the time side of the chart. Then locate the proper frequency on the frequency side. Second, follow two tracks—one straight up and the other across—until the two tracks cross. The shade at this crossing point corresponds to the likelihood of reception. If the shade is white, reception is least likely. If the shade is darkest possible, reception is most likely. If the shade is an intermediate gray, the chance of success is roughly 50-50.

2) When you are listening at a particular time and want to know which band or bands will most likely be open from your location to the particular part of the world you selected when you chose the chart: Locate the appropriate time on the time side of the chart, then follow across parallel to the frequency side until the darkest shades are reached. When you stop at the darkest areas and glance back to the frequency side of the chart, you can read off the appropriate frequency or frequency ranges that should be searched for transmissions from the chosen geographic area.

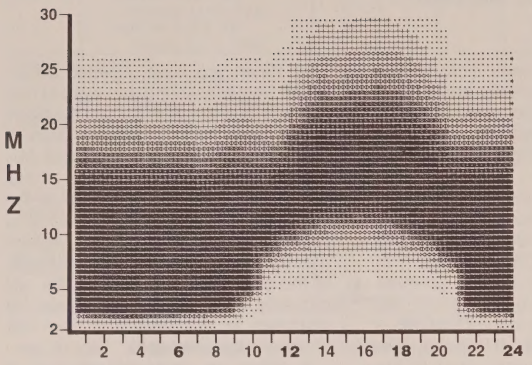
3) When you have selected a particular frequency band and want to find the best time to listen for transmissions in that band from a particular area of the world: Locate the appropriate frequency on the frequency side of the chart, then follow along parallel to the time side until the darkest shading is reached. When you stop at the darkest areas and glance back to the time side of the chart, you can read off the appropriate time or times that should be searched for transmissions from the chosen geographic area.

4) When you know the schedule of a particular broadcaster, but you find that when that broadcaster beams to your area the transmissions are blocked by heavy interference from stations in another geographic area: Locate those times and frequencies when interference is least likely and reception of the desired transmission is most likely. In this case, take a piece of thin paper and lightly outline the pattern of darkest shading on the chart of the desired region and then lay the tracing over the chart appropriate to your geographic area and the location of the interfering stations. All areas of the tracing that show white or lightest gray will be those with the least likelihood of interference from the particular geographic area appropriate to the chart over which the tracing is placed.

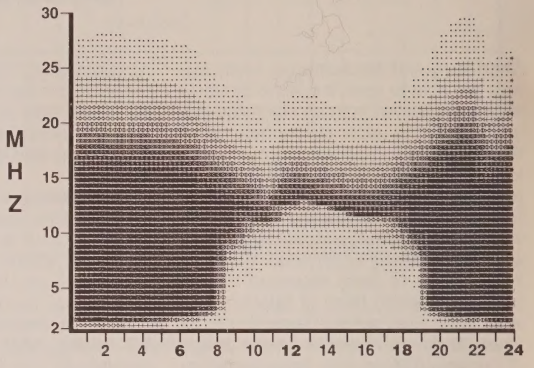
Remember that it is not possible to take into account the various effects that low transmitter powers, high transmitting antenna firing angles, large distances from transmitting antenna beam line (receiver not in target area), large distances (greater than 2000 kilometers) from either the standard beginning or endpoint for which a chart is calculated, receiver sensitivity, and receiving antenna properties all can have on the chance of reception.

With these **Database** quick-access propagation charts, you can optimize your listening enjoyment by concentrating on those bands and times most likely to bring successful results. Good hunting!

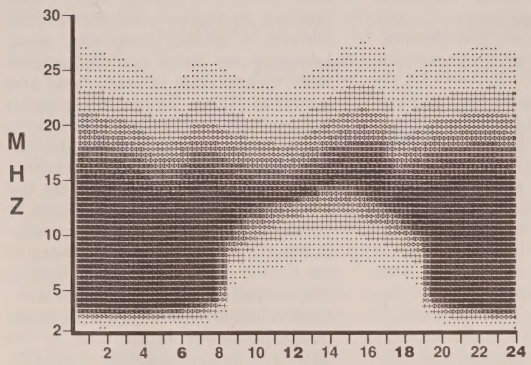
PROBABILITY OF RECEPTION



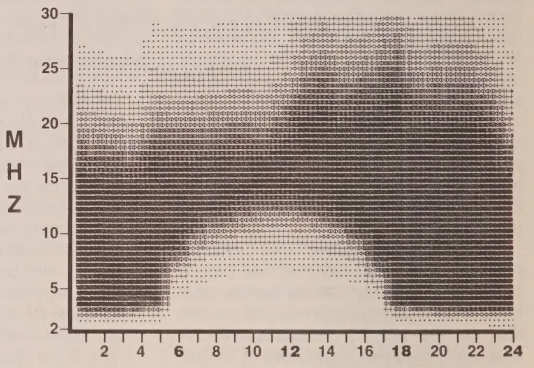
EUROPE — E NORTH AMERICA



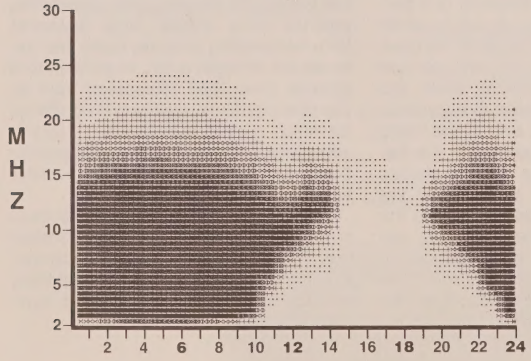
C AFRICA/S AFRICA — E NORTH AMERICA



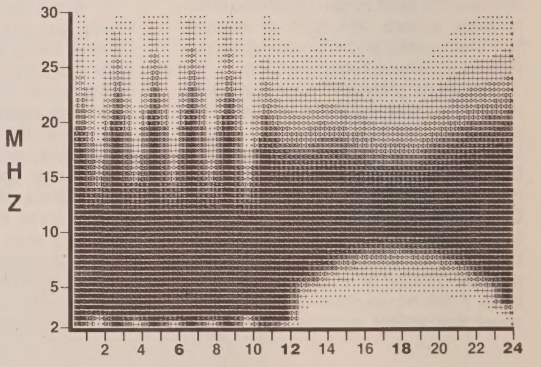
MIDDLE EAST — E NORTH AMERICA



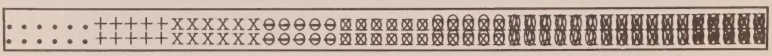
SE ASIA/E ASIA — E NORTH AMERICA



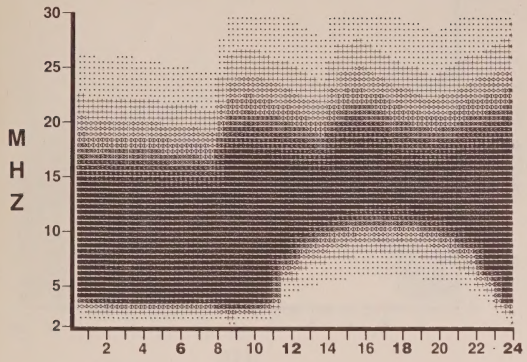
E SOUTH AMERICA — E NORTH AMERICA



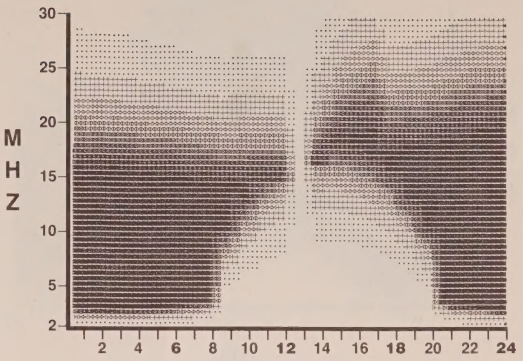
W SOUTH AMERICA — E NORTH AMERICA



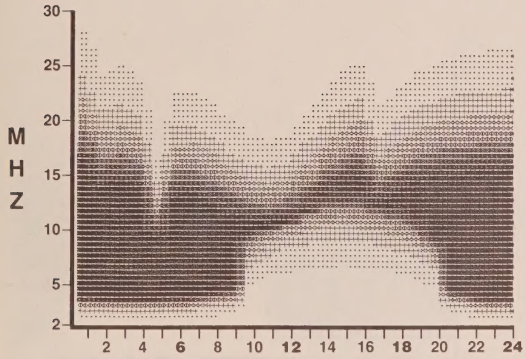
Minimum Probability — Maximum Probability (90%)



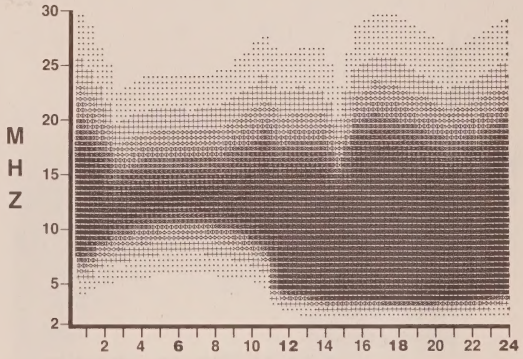
EUROPE — W NORTH AMERICA



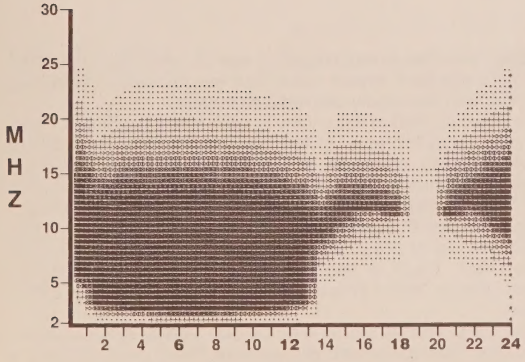
C AFRICA/S AFRICA — W NORTH AMERICA



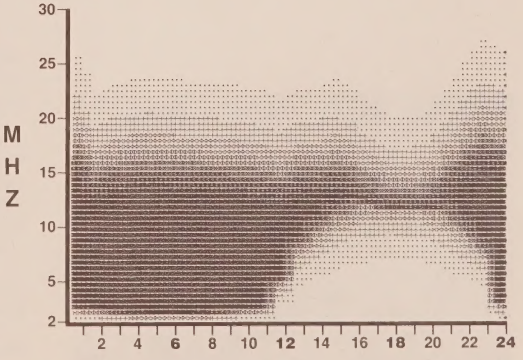
MIDDLE EAST — W NORTH AMERICA



SE ASIA/E ASIA — W NORTH AMERICA



W SOUTH AMERICA — W NORTH AMERICA



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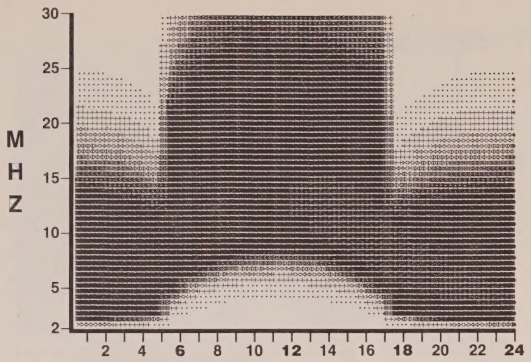
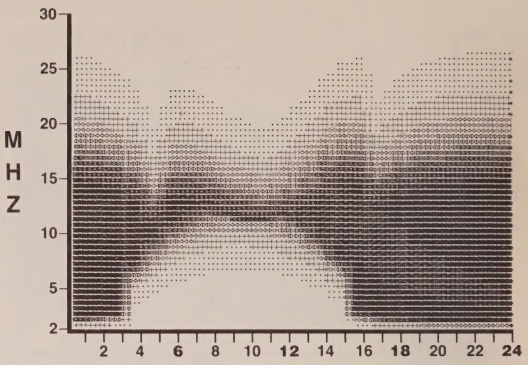


C AFRICA/S AFRICA — EUROPE



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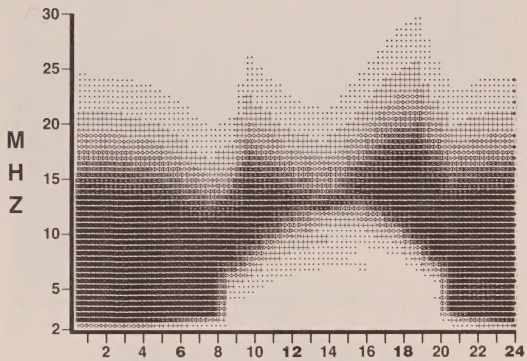

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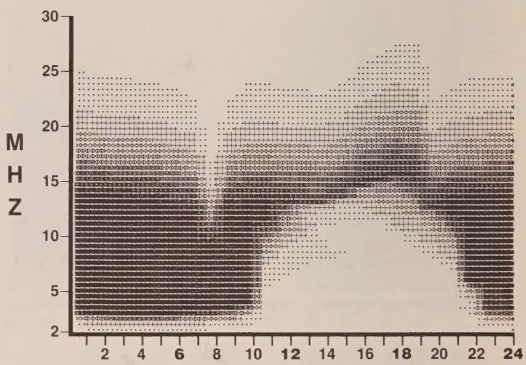

W SOUTH AMERICA — EUROPE

David D. Meisel

David Meisel's interest in radio began at age 12, when he constructed his first "cat's whiskers" crystal radio. This was followed in 1954 by a lifetime affair with astronomy and radio propagation.

David earned his PhD in Astronomy in 1967 from Ohio State University. He is presently Professor of Astronomy at the State University of New York, Geneseo, and on the staff of the Mees Observatory of the University of Rochester. His other credits include being Executive Director of the American Meteor Society, which is working with the International Halley Watch; Fellow of the Explorer's Club, New York; Visiting Scientist at Kitt Peak; and Member of the International Scientific Radio Union. David is also included in the American Men and Women in Science, Who's Who in Technology Today, and Who's Who in the East.

The real stars in his life are his wife, Carolyn, and daughters Catherine and Grace. During moments of weakness, David admits to being a shortwave listener and technical monitor for a number of international broadcasting organizations.

RADIO DATABASE INTERNATIONAL introduces to the shortwave listener and monitor the first quick-access reference to shortwave broadcasting schedules and propagation predictions. The DATABASE, a merger of resourceful computer design and the professional frequency management databank of International Broadcasting Services, Ltd., is prepared by the worldwide monitoring and editorial members of IBS. Innovative graphics and software provide immediate, unambiguous answers. The propagation graphics, for example, distill the traditional complexities of ionospheric prediction into straightforward probabilities applicable to everyday listening.

The DATABASE is reissued in its entirety every six months. This coincides with the semi-annual cycle in which worldwide broadcasters implement major schedule changes. The forthcoming Summer/Autumn edition covering 5.73-30 MHz will include exhaustive laboratory and user tests of state-of-the-art shortwave receiving equipment.

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